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AIRLINE DELAY TRENDS, 1974-1975. A STUDY OF BLOCK TIME DELAYS, --ETC(U)

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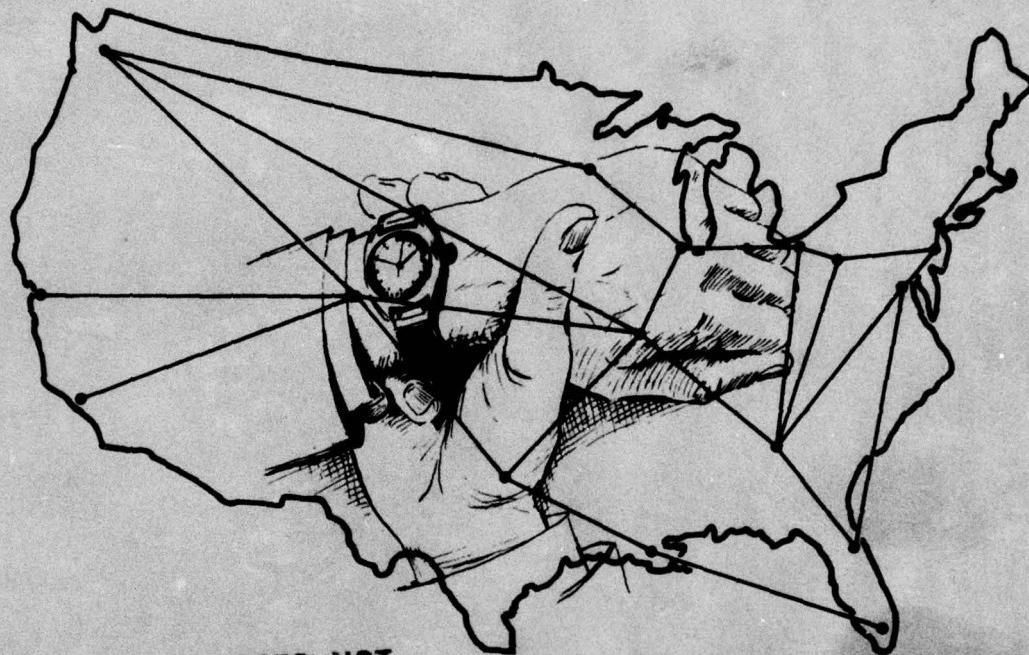
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AIRLINE DELAY TRENDS 1974-1975

A Study of Block Time Delays
Ground and Airborne for Scheduled Air Carriers



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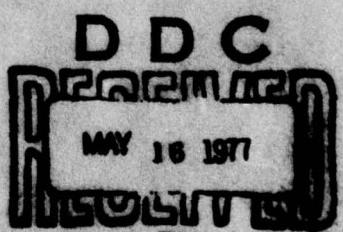


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16. Abstract Estimates of block, airborne and ground delays for route segments flown by United States domestic scheduled airlines operating out of twenty large airports are presented in this document. The data were determined from the CAB ER-586 Service Segment data base, which provides monthly operational times, both ground and airborne, for all route segments receiving scheduled air carrier service. The data in this report are limited to the three-hundred and thirty route segments connecting the twenty airports included in the study. Average monthly estimates of the ground and airborne components of block delays, defined as delays encountered from "ramp to ramp" on a route segment, are presented for the two-year period from 1974-1975. Average monthly estimates of delays for the airborne portion of the segment ("wheel off" to "wheels on") are categorized according to (1) route segment, (2) airline, (3) aircraft type and (4) local scheduled arrival or departure time. Average monthly estimates of delays for the ground portion of the route segments are categorized according to departure and arrival ground times at the twenty airport locations included in the study. These estimates of ground delays are further categorized into "busy" time intervals (07:00 - 22:59) and "dull" time intervals (23:00 - 06:59).		
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PREFACE

The 1976 edition of Airline Delay Trends is the third in a series of annual reports sponsored by the Federal Aviation Administration, Office of Systems Engineering and Management. All statistical models and programs developed by the initial study effort in 1974 are accessed through the computer facilities of the Department of Transportation, Transportation Systems Center, Cambridge, Massachusetts. It is here that the 1975 and 1976 reports were produced.

The report provides estimates of block, airborne, and ground delays for route segments flown by major domestic scheduled airlines operating out of 20 of the most active U.S. airports. The data presented within were derived by using a comprehensive airline data base collected by the Civil Aeronautics Board, under Economic Regulation - 586, known as the CAB Service Segment Data.

These data provide continuous and consistent monthly totals of operational block times, for both the airborne and ground components of all routes flown in scheduled service. The trends in airline delays were determined from the CAB data files by combining the files with data available from two other sources - the Official Airline Guide data (OAG) and the New York/New Jersey Port Authority ground time estimates.

The monthly estimates of delays provided in this report cover the two year period, 1974 and 1975. The level of detail in delay times produced from merging the CAB, OAG, and Port Authority data is categorized according to:

- (1) Route segment
- (2) Directional departure and arrival airborne and ground time.
- (3) Airline
- (4) Aircraft type
- (5) Scheduled departure and arrival time - airborne and ground component

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- (6) Scheduled departure and arrival "busy" and "dull" time interval - airborne and ground components.

The two earlier delay reports for 1972-1973, and 1973-1974 present data for the 50 most active routes connecting 20 airports. The 1974-1975 report shows the same types of graphical displays and tabular presentations of summary data, but a representative sample of only 10 of the top 50 routes are included in the report. However, the Transportation Systems Center maintains the delay data for all routes actually flown in scheduled service during the 1974-1975 period, as well as for the earlier years. There data are accessible for display and for analyses through an on-line time-sharing environment. Other modifications have been made in the new version of the delay document. A listing of the nominal airborne times by departure airport for all routes segments has been included in Chapter I, Table 1. Chapter III of the report published in 1976, showing route segment delays by aircraft type, has been eliminated, as well as Tables IV-2-1 through IV-2-20 listing the average yearly air, block and ground times by departure airport.

TABLE OF CONTENTS

	Page
Table A Major Airports and Air Carriers Included in Study	1
Table B Most Active Route Segments Included in Study	2
<i>Chapter I.</i> <i>Airborne Delays</i>	3
Table I-1 Nominal Airborne Times for Route Segments Connecting the 20 Air- ports	4
Tables and Figures I-2-1 to I-2-10 Airborne Delays, Monthly Averages, 1974 and 1975; Busy and Dull Intervals for 10 of Top 50 Route Segments	
Table and Figure I-2-1 Atlanta to Dallas/Fort Worth ..	14, 15
Table and Figure I-2-2 Boston to Philadelphia	16, 17
Table and Figure I-2-3 Cleveland to Detroit	18, 19
Table and Figure I-2-4 Washington to Chicago	20, 21
Table and Figure I-2-5 Denver to Chicago	22, 23
Table and Figure I-2-6 New York (JFK) to Miami	24, 25
Table and Figure I-2-7 Los Angeles to Sar Francisco ..	26, 27
Table and Figure I-2-8 New York (La Guardia) to Boston	28, 29
Table and Figure I-2-9 Chicago to St. Louis	30, 31
Table and Figure I-2-10 San Francisco to Seattle	32, 33
I-3. Airborne Times, Delays, and Flight Activity Annual Averages for 1974, Categorized by Route Segment, Airline and Equipment Type, Busy and Dull Time Intervals, 10 of Top 50 Route Segments	
Table I-3-1 Atlanta to Dallas/Fort Worth	34
Table I-3-2 Boston to Philadelphia	35
Table I-3-3 Cleveland to Detroit	37

TABLE OF CONTENTS (CONTINUED)

	Page
Table I-3-4 Washington to Chicago	39
Table I-3-5 Denver to Chicago	40
Table I-3-6 New York (JFK) to Miami	41
Table I-3-7 Los Angeles to San Francisco	43
Table I-3-8 New York (La Guardia) to Boston	46
Table I-3-9 Chicago to St. Louis	47
Table I-3-10 San Francisco to Seattle	48
I-4. Airborne Times, Delays and Flight Activity, Annual Averages for 1975, Categorized by Route Segment, Airline and Equipment Type, Busy and Dull Time Intervals, 10 of Top 50 Route Segments	
Table I-4-1 Atlanta to Dallas/Fort Worth	49
Table I-4-2 Boston to Philadelphia	50
Table I-4-3 Cleveland to Detroit	52
Table I-4-4 Washington to Chicago	54
Table I-4-5 Denver to Chicago	55
Table I-4-6 New York (JFK) to Miami	56
Table I-4-7 Los Angeles to San Francisco	58
Table I-4-8 New York (La Guardia) to Boston	61
Table I-4-9 Chicago to St. Louis	62
Table I-4-10 San Francisco to Seattle	63
I-5 Airborne Times, Delays, and Flight Activity; Annual Averages, 1974 and 1975, Categorized by Route Segment, Airline and Equipment Type, 10 of Top 50 Route Segments	
Table I-5-1 Atlanta to Dallas/Fort Worth	64
Table I-5-2 Boston to Philadelphia	65

TABLE OF CONTENTS (CONTINUED)

	Page
Table I-5-3	Cleveland to Detroit 67
Table I-5-4	Washington to Chicago 68
Table I-5-5	Denver to Chicago 69
Table I-5-6	New York (JFK) to Miami 70
Table I-5-7	Los Angeles to San Francisco 72
Table I-5-8	New York (La Guardia) to Boston 74
Table I-5-9	Chicago to St. Louis 75
Table I-5-10	San Francisco to Seattle 76
<i>Chapter II.</i>	<i>Ground Delays</i> 77
Table II-1	Nominal Ground Times at 20 Airports, Departures; Arrivals 79
Tables and Figures II-2-1 to II-2-20 Departure/Arrival Ground Delays, Monthly Averages, 1974 and 1975, for Busy and Dull Intervals at 20 Airports	
Table and Figure II-2-1	Atlanta 80, 81
Table and Figure II-2-2	Boston 82, 83
Table and Figure II-2-3	Cleveland 84, 85
Table and Figure II-2-4	Washington 86, 87
Table and Figure II-2-5	Denver 88, 89
Table and Figure II-2-6	Dallas/Fort Worth 90, 91
Table and Figure II-2-7	Detroit 92, 93
Table and Figure II-2-8	Newark 94, 95
Table and Figure II-2-9	New York (JFK) 96, 97
Table and Figure II-2-10	Los Angeles 98, 99
Table and Figure II-2-11	New York (La Guardia) 100, 101
Table and Figure II-2-12	Miami 102, 103

TABLE OF CONTENTS (CONTINUED)

	Page
Table and Figure II-2-13 Minneapolis/St. Paul	104, 105
Table and Figure II-2-14 New Orleans	106, 107
Table and Figure II-2-15 Chicago	108, 109
Table and Figure II-2-16 Philadelphia	110, 111
Table and Figure II-2-17 Pittsburgh	112, 113
Table and Figure II-2-18 Seattle	114, 115
Table and Figure II-2-19 San Francisco	116, 117
Table and Figure II-2-20 St. Louis	118, 119
<i>Chapter III Route Segment Delays and Trend Comparisons, Airborne and Ground</i>	<i>120</i>
III-1 Route Segment Times and Delays; Annual Airborne and Ground Averages, 1974 and 1975; All Routes, Top 50	
Table III-1-1 Average Yearly Air and Ground Times and Delay, All Route Segments.....	121
Table III-1-2 Average Yearly Air and Ground Times and Delay, Top 50 Route Segments.....	141
Table and Figure III-2 Average Monthly Airborne Delays Ground Delays Composite for Top 50 Route Segments	144, 145
III-3 Airborne, Ground, Block Delays and Flight Activity, Annual Averages, 1974 and 1975; All Individual Route Segments Arriving at 20 Designated Airports; Atlanta to St. Louis	
Table III-3-1 Atlanta	146
Table III-3-2 Boston	147
Table III-3-3 Cleveland	148
Table III-3-4 Washington	149
Table III-3-5 Denver	150

TABLE OF CONTENTS (CONTINUED)

	Page
Table III-3-6 Dallas/Fort Worth	151
Table III-3-7 Detroit	152
Table III-3-8 Newark	153
Table III-3-9 New York (JFK)	154
Table III-3-10 Los Angeles	155
Table III-3-11 New York (La Guardia)	156
Table III-3-12 Miami	157
Table III-3-13 Minneapolis/St. Paul	158
Table III-3-14 New Orleans	159
Table III-3-15 Chicago	160
Table III-3-16 Philadelphia	161
Table III-3-17 Pittsburgh	162
Table III-3-18 Seattle	163
Table III-3-19 San Francisco	164
Table III-3-20 St. Louis	165
 III-4 Airborne Delays and Flight Activity, Monthly Averages, 1974 through 1975; Summaries of All Flights Arriving at 20 Designated Airports; Atlanta to St. Louis	
Table III-4-1 Atlanta	166
Table III-4-2 Boston	167
Table III-4-3 Cleveland	168
Table III-4-4 Washington	169
Table III-4-5 Denver	170
Table III-4-6 Dallas/Fort Worth	171

TABLE OF CONTENTS (CONTINUED)

	Page
Table III-4-7 Detroit	172
Table III-4-8 Newark	173
Table III-4-9 New York (JFK)	174
Table III-4-10 Los Angeles	175
Table III-4-11 New York (La Guardia)	176
Table III-4-12 Miami	177
Table III-4-13 Minneapolis/St. Paul	178
Table III-4-14 New Orleans	179
Table III-4-15 Chicago	180
Table III-4-16 Philadelphia	181
Table III-4-17 Pittsburgh	182
Table III-4-18 Seattle	183
Table III-4-19 San Francisco	184
Table III-4-20 St. Louis	185
 III-5 Airborne Delays and Flight Activity, Hourly Distributions, 1974 and 1975, for Flights Arriving at 20 Designated Airports; Atlanta to St. Louis	
Table III-5-1 Atlanta	186
Table III-5-2 Boston	187
Table III-5-3 Cleveland	188
Table III-5-4 Washington	189
Table III-5-5 Denver	190
Table III-5-6 Dallas/Fort Worth	191
Table III-5-7 Detroit	192
Table III-5-8 Newark	193

TABLE OF CONTENTS (CONTINUED)

	Page	
Table III-5-9	New York (JFK)	194
Table III-5-10	Los Angeles	195
Table III-5-11	New York (La Guardia)	196
Table III-5-12	Miami	197
Table III-5-13	Minneapolis/St. Paul	198
Table III-5-14	New Orleans	199
Table III-5-15	Chicago	200
Table III-5-16	Philadelphia	201
Table III-5-17	Pittsburgh	202
Table III-5-18	Seattle	203
Table III-5-19	San Francisco	204
Table III-5-20	St. Louis	205

METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
			<u>LENGTH</u>	
			millimeters	0.04
			centimeters	0.4
			meters	3.3
			kilometers	1.1
			miles	0.6
			<u>AREA</u>	
			square centimeters	0.16
			square meters	1.2
			square kilometers	0.4
			hectares ($10,000 \text{ m}^2$)	2.5
			<u>MASS (weight)</u>	
			grams	0.005
			kilograms	2.2
			tonnes (1000 kg)	1.1
			<u>VOLUME</u>	
			milliliters	0.03
			liters	2.1
			cubic meters	1.06
			cubic feet	0.26
			cubic yards	36
			cubic miles	1.3
			<u>TEMPERATURE (exact)</u>	
			Celsius	9/5 (from add 32)
			Fahrenheit	5/9 (from subtract 32)
			temperature	temperature

Approximate Conversions from Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
			<u>LENGTH</u>	
			inches	0.04
			feet	0.4
			yards	3.3
			miles	1.1
			<u>AREA</u>	
			square inches	0.16
			square feet	1.2
			square yards	0.4
			acres	2.5
			<u>MASS (weight)</u>	
			ounces	0.005
			pounds	2.2
			short tons (2000 lb)	1.1
			<u>VOLUME</u>	
			milliliters	0.03
			liters	2.1
			cubic meters	1.06
			cubic feet	0.26
			cubic yards	36
			cubic miles	1.3
			<u>TEMPERATURE (exact)</u>	
			Celsius	9/5 (from add 32)
			Fahrenheit	5/9 (from subtract 32)
			temperature	temperature

TABLE A MAJOR AIRPORTS AND AIR CARRIERS INCLUDED IN STUDY

AIRPORT CODE	AIRPORT NAME
1. ATL	William B. Hartsfield Atlanta International
2. BOS	Boston - Logan
3. CLE	Cleveland - Hopkins International
4. DFW	Dallas/Fort Worth
5. DCA	Washington National
6. DEN	Denver - Stapleton International
7. DTW	Detroit Metro
8. EWR	Newark (New Jersey)
9. JFK	John F. Kennedy International (New York City)
10. LAX	Los Angeles International
11. LGA	La Guardia (New York City)
12. MIA	Miami International
13. MSP	Minneapolis/St. Paul International
14. MSY	New Orleans International (Moisant)
15. ORD	O'Hare (Chicago)
16. PHL	Philadelphia International
17. PIT	Greater Pittsburgh
18. SEA	Seattle/Tacoma International
19. SFO	San Francisco International
20. STL	Lambert - St. Louis International

AIRLINE CODE	AIRLINE NAME
1. AL	Allegheny Airlines, Inc.
2. AA	American Airlines, Inc.
3. BN	Braniff Airways, Inc.
4. CO	Continental Air Lines, Inc.
5. DL	Delta Air Lines, Inc.
6. EA	Eastern Air Lines, Inc.
7. FL	Frontier Airlines, Inc.
8. RW	Air West, Inc. - (Hughes)
9. MO	Mohawk Airlines, Inc.*
10. NA	National Airlines, Inc.
11. NC	North Central Airlines, Inc.
12. NE	Northeast Airlines, Inc.*
13. NW	Northwest Airlines, Inc.
14. OZ	Ozark Air Lines, Inc.
15. PA	Pan American World Airways, Inc.
16. PI	Piedmont Aviation, Inc.
17. SO	Southern Airways, Inc.
18. TT	Texas International Airways, Inc.
19. TW	Trans World Airlines, Inc.
20. UA	United Air Lines, Inc.
21. WA	Western Air Lines, Inc.

*Mohawk and Northeast Airlines were included in the 1972-1973 study. In 1972, however, Mohawk merged with Allegheny and Northeast merged with Delta. They do not appear within as reporting air carriers, although their route structures were maintained.

TABLE B-50 MOST ACTIVE ROUTE SEGMENTS INCLUDED IN STUDY
 (Ranked in Alphabetical Order)

	<u>FROM</u>	<u>TO</u>		<u>FROM</u>	<u>TO</u>
1.	ATL	-	DAL	26.	LGA
2.	ATL	-	MIA	27.	MIA
3.	ATL	-	ORD	28.	MIA
4.	BOS	-	DCA	29.	MSP
5.	BOS	-	EWR	30.	ORD
6.	BOS	-	JFK	31.	ORD
7.	BOS	-	LGA	32.	ORD
8.	BOS	-	PHL	33.	ORD
9.	CLE	-	DTW	34.	ORD
10.	DAL	-	ATL	35.	ORD
11.	DCA	-	BOS	36.	ORD
12.	DCA	-	LGA	37.	ORD
13.	DCA	-	ORD	38.	ORD
14.	DEN	-	ORD	39.	ORD
15.	DTW	-	LGA	40.	ORD
16.	DTW	-	ORD	41.	ORD
17.	EWR	-	BOS	42.	PHL
18.	EWR	-	ORD	43.	PHL
19.	JFK	-	BOS	44.	PIT
20.	JFK	-	MIA	45.	PIT
21.	LAX	-	ORD	46.	SEA
22.	LAX	-	SFO	47.	SFO
23.	LGA	-	BOS	48.	SFO
24.	LGA	-	DCA	49.	SFO
25.	LGA	-	DTW	50.	STL

CHAPTER I. AIRBORNE DELAYS

Chapter I data are divided into five sections:

- Table I-1 displays the nominal airborne times for both jet and propeller aircraft for all route segments flown between the 20 airports included in the study, listed by departure airport. The inter-airport distance is also given for the routes.

- Section I-2 presents tables and figures illustrating airborne delays by month for 1974 and 1975 for the 10 of the top 50 most active route segments. These delays are shown as averages for "busy" (07:00 through 22:59) and "dull" (23:00 through 06:59) intervals.

- Section I-3 is composed of tables showing the 1974 annual averages of airborne times, delays, and flight activity for the same 10 route segments as shown in Section I-2. These data are categorized by route segment, airline, equipment type, and time interval (busy or dull).

- Section I-4 shows for the year 1975 the same kind of information that Section I-3 shows for 1974. Ten route segments are included.

- Section I-5 compares the annual averages of the airborne delays during 1974 and 1975 for the 10 route segments. These data are also categorized by route segment, airline, and equipment type.

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TABLE I - 1

ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME	NOMINAL PHOP TIME		ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME	NOMINAL PHOP TIME	
			NOMINAL ARRIVAL TIMES DEPARTING ATL	NOMINAL ARRIVAL TIMES DEPARTING HNS				NOMINAL ARRIVAL TIMES DEPARTING HNS	NOMINAL PHOP TIME
ATL	HOS	946	1:50		RNS	ATL	946	2:06	
ATL	CFL	554	1:15		RNS	CFL	563	1:19	
ATL	DCA	547	1:07		RNS	DCA	599	0:59	1:30
ATL	SFO	731	1:35		RNS	DET	1766	3:56	
ATL	DTW	595	1:14		RNS	DTW	1561	3:35	
ATL	EWR	745	1:27		RNS	DTW	652	1:29	
ATL	JFK	760	1:26		RNS	FWD	271	0:40	0:40
ATL	IAX	1946	5136		RNS	JFK	187	0:29	
ATL	LGA	761	1:31		RNS	IAX	2611	5:35	
ATL	MIA	595	1:15		RNS	I GA	185	0:30	0:38
ATL	MSP	906	1:59		RNS	MTA	1756	2:32	
ATL	MRY	425	0:57		RNS	MSP	1124	2:40	
ATL	MDT	606	1:15		RNS	M SY	1367	2:59	
ATL	PHL	665	1:17		RNS	MDT	967	1:44	
ATL	PIT	526	1:10		RNS	PHL	280	0:42	1:24
ATL	SFO	2139	4126		RNS	PIT	496	1:15	2:02
ATL	STL	484	1:06		RNS	SFA	2496	5:46	
					RNS	SFO	2704	5:44	
					RNS	STL	1046	2:24	

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TABLE I-1 (CONTINUED)

ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME	NOMINAL PROP TIME	NOMINAL AIRTIME TIMES DEPARTING CLF		DISTANCE	NOMINAL JET TIME	NOMINAL PROP TIME
				NOMINAL AIRTIME DEPARTING DCA	NOMINAL AIRTIME DEPARTING DCA			
CLF ATL	554	1:110		547	1:110	2:06		
CLF HNS	565	1:004		515	0:53	1:10		
CLF DCA	310	0:47		399				
CLF DEN	1215	2:42		510	0:49			
CLF HSR	1021	2:15		510	0:49			
CLF DTW	95	0:18	0:24	405	1:05			
CLF FTR	4004	0:57		405	1:05			
CLF JFK	425	1:00		199	0:31			
CLF LAX	2053	4:27		214	0:29	0:38		
CLF IGA	419	0:49		214	0:29			
CLF MIA	1080	2:20		920	1:59			
CLF MSP	622	1:30		931	2:05			
CLF MSY	917	2:17		931	2:05			
CLF NAD	316	0:50		612	1:22			
CLF PHL	363	0:49		612	1:22			
CLF PIT	105	0:15		120	0:24			
CLF SFO	2161	4:46		205	0:35			
CLF STL	487	1:06		719	1:39	2:41		

TABLE I-1 (CONTINUED)

NOMINAL ARRIVAL TIMES DEPARTING DFW		NOMINAL ARRIVAL TIME		NOMINAL PROG TIME		ROUTE SEGMENT		DISTANCE		NOMINAL JET TIME		NOMINAL PROG TIME		
ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME	NOMINAL PROG TIME	NOMINAL JET TIME	NOMINAL PROG TIME	ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME	NOMINAL PROG TIME	ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME	NOMINAL PROG TIME	
DFW - ATL	731	1:27				DFW - RWS	1766	3:19						
DFW - BIS	1561	3:05				DFW - CLT	1213	2:15						
DFW - CLE	1021	2:03				DFW - DFW	615	1:23						
DFW - DEN	645	1:51				DFW - DIA	1135	2:05						
DFW - DTW	987	1:57				DFW - FLL	1617	2:58						
DFW - FWD	1372	2:37				DFW - JFK	1638	1:07						
DFW - JFK	1591	2:36				DFW - LAX	849	1:50						
DFW - LAX	1235	2:27				DFW - MSP	493	1:21						
DFW - LGA	1388	2:41				DFW - MSY	1067	2:15						
DFW - MIA	1121	2:11				DFW - ORL	901	1:41						
DFW - PGP	852	1:53				DFW - PHL	1569	2:57						
DFW - MSY	447	0:51				DFW - PIT	1302	2:41						
DFW - ORD	802	1:33				DFW - SFA	1019	2:17						
DFW - PHL	1502	2:30				DFW - SFO	956	2:04						
DFW - PIT	1067	2:08				DFW - STL	781	1:53						
DFW - SEA	1660	3:47												
DFW - SFO	1065	3:09												
DFW - STL	550	1:11												

TABLE I-1 (CONTINUED)

DEPARTING DTW	NOMINAL ATARRONE TIME	NOMINAL PROG TIME	NOMINAL JET TIME	NOMINAL DISTANCE	QUATIF SEGMENT	NOMINAL ATARRONE TIMES DEPARTING DTW	
						NOMINAL PROG TIME	QUATIF SEGMENT
DTW ATL	505	1:19		FWD ATL		745	1:33
DTW BOS	632	1:17		FWD BOS		201	0:24
DTW CLF	95	0:23	0:23	FWD CLF		404	0:36
DTW FRA	405	0:59		FWD FRA		190	0:45
DTW JFK	1135	2:32		FWD JFK		1617	3:30
DTW NFM	987	1:57		FWD NFM		1572	3:07
DTW PVD	488	1:03		FWD PVD		488	1:15
DTW JFK	509	1:03		FWD JFK		21	0:06
DTW LAX	1979	4:09		FWD LAX		2454	5:06
DTW LGA	501	1:04		FWD LGA		1046	2:16
DTW MIA	1145	2:17		FWD MIA		1167	2:34
DTW MSP	526	1:16		FWD MSP		719	1:52
DTW MSY	426	1:55		FWD PHL		40	0:21
DTW DEN	235	0:38		FWD PHL		119	0:49
DTW PHL	453	1:01		FWD SFO		2565	5:40
DTW PIT	201	0:33		FWD SFO		472	1:55
DTW SFO	2079	4:28		FWD STI			
DTW STL	440	1:09		FWD STI			

TABLE I-1 (CONTINUED)

NOMINAL AIRBORNE TIMES DEPARTING JFK		NOMINAL AIRBORNE TIMES DEPARTING LAX	
ROUTE SEGMENT	DISTANCE NM	NOMINAL JET TIME	NOMINAL PROP TIME
ROUTE SEGMENT	DISTANCE NM	NOMINAL JET TIME	NOMINAL PROP TIME
JFK ATL	760	1:32	
JFK HNL	187	0:21	
JFK RLF	425	1:07	
JFK DCA	213	0:40	
JFK DEN	1638	3:57	
JFK DFW	1391	2:58	
JFK DTW	569	1:10	
JFK FLL	21	0:11	
JFK LAX	2475	4:05	
JFK MIA	1390	2:14	
JFK MSP	1024	2:20	
JFK MSY	1182	2:28	
JFK NRT	740	1:40	
JFK PHI	94	0:16	
JFK PIT	540	0:42	
JFK SFO	2421	5:23	
JFK SFO	2586	4:40	
JFK STI	892	2:05	
			1:46
			2:11
			4:55
			2:53
			3:54
			1:40
			8:49
			1:35
			2:23
			3:42
			4:10
			2:454
			4:13
			2:475
			4:33
			2:542
			4:18
			1:536
			3:01
			1:670
			3:06
			1:744
			3:14
			2:402
			4:27
			2:136
			4:03
			1:58
			0:46
			3:37
			2:59
			1:592

TABLE I-1 (CONTINUED)

ROUTE SEGMENT	DISTANCE MILES	NOMINAL JET TIME		MINUTE SEGMENT	DISTANCE	NOMINAL PROP TIME		NOMINAL JET TIME	NOMINAL PROP TIME
		NOMINAL JET TIME	NOMINAL PROP TIME			NOMINAL JET TIME	NOMINAL PROP TIME		
LGA ATL	761	1:56			MTA ATL	595	1:18		
LGA HNL	185	0:26	0:55		MTA HNL	125A	2:28		
LGA CLF	418	1:05			MTA CLF	168A	2:26		
LGA ICA	214	0:29	0:40		MTA ICA	920	1:53		
LGA DFN	138A	3:01			MTA DFN	112A	2:54		
LGA MIA	501	1:14			MTA MIA	1145	2:27		
LGA MIA	1095	2:20			MTA MIA	1040	2:15		
LGA MSP	1020	2:14			MTA JER	1040	2:08		
LGA MSY	1143	2:41			MTA LAX	2342	4:35		
LGA DEN	733	1:31			MTA LGA	1097	2:16		
LGA PHI	45	0:29			MTA MSP	1601	1:20		
LGA PIT	135	0:52	1:19		MTA SY	174	1:24		
LGA STI	488	2:01			MTA ORG	119A	2:14		
					MTA PHI	1014	2:05		
					MTA PIT	1015	2:06		
					MTA SEN	2545	5:19		
					MTA STI	106A	2:23		

TABLE I-1 (CONTINUED)

ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME		ROUTE SEGMENT	NOMINAL JET TIME		ROUTE SEGMENT	NOMINAL JET TIME	
		NOMINAL DEPARTURE TIME DEPARTING MSP	NOMINAL PNT TIME		NOMINAL DEPARTURE TIME DEPARTING MSY	NOMINAL PNT TIME		NOMINAL DEPARTURE TIME DEPARTING MSY	NOMINAL PNT TIME
MSP ATL	906	1:58		MSY ATI	425		MSY ATL	425	0:54
MSP BNS	1124	2:14		MSY BNS	1367		MSY BNS	1367	2:39
MSP CLF	622	1:18		MSY CLF	917		MSY CLF	917	2:03
MSP DCA	931	1:52		MSY DCA	1067		MSY DCA	1067	2:22
MSP DFN	693	1:32		MSY DFN	447		MSY DFN	447	1:00
MSP DFA	852	1:50		MSY DFA	926		MSY DFA	926	2:00
MSP DTW	528	1:13		MSY DTW	1167		MSY DTW	1167	2:09
MSP JFK	1028	2:02		MSY JFK	1142		MSY JFK	1142	2:15
MSP LAX	1536	3:18		MSY LAX	1670		MSY LAX	1670	3:31
MSP LGA	1020	2:01		MSY LGA	1143		MSY LGA	1143	2:13
MSP MIA	1501	3:15		MSY MIA	674		MSY MIA	674	1:23
MSP NBO	534	0:43	1:20	MSY NBO	837		MSY NBO	837	1:46
MSP PHL	941	2:00		MSY PHL	1048		MSY PHL	1048	2:19
MSP SFA	1599	3:04		MSY SFA	918		MSY SFA	918	1:50
MSP SFO	1584	3:27		MSY SFO	1911		MSY SFO	1911	3:56
MSP STL	448	1:03		MSY STL	604		MSY STL	604	1:21

TABLE I-1 (CONTINUED)

ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME	NOMINAL PROP TIME	NOMINAL ARRIVAL TIME DEPARTING PHL		NOMINAL PROP TIME	NOMINAL PROP TIME
				NOMINAL SEGMENT	NOMINAL SEGMENT		
NOR ATL	606	1:08		PHL	ATL	6:55	1:14
NOR PHS	467	1:16		PHL	PHL	2:40	0:36
NOR CLF	316	0:38		PHL	CLF	3:55	0:57
NOR DCA	612	1:13		PHL	DCA	1:20	0:26
NOR DFN	901	1:57		PHL	DHN	1:569	1:33
NOR NFK	802	1:38		PHL	NFK	1:302	2:03
NOR RTW	235	0:31		PHL	RTW	4:53	1:10
NOR FWD	719	1:24		PHL	FWD	8:0	0:14
NOR JFK	743	1:27		PHL	JFK	9:3	0:21
NOR LAX	1744	3:34		PHL	LAX	2:02	5:06
NOR LGA	713	1:26		PHL	LGA	9:5	0:25
NOR PIA	1197	2:23		PHL	PIA	1:14	2:05
NOR MSP	334	0:51	1:11	PHL	MSP	9:01	2:17
NOR MSY	837	1:47		PHL	MSY	1:08	2:25
NOR PHL	676	1:21		PHL	PHL	6:78	1:36
NOR PIT	412	0:54	1:11	PHL	PIT	2:08	0:43
NOR SEA	1720	3:43		PHL	SEA	2:21	5:51
NOR SFO	1946	3:53		PHL	SFO	4:14	1:55
NOR SFO	258	0:38	1:05				

TABLE I-1 (CONTINUED)

ROUTE SEGMENT	DISTANCE NOMINAL JET TIME	NOMINAL AIRTIME TIMES DEPARTING PIT		NOMINAL ARRIVING TIMES OF PARTING SFA	
		NOMINAL SEGMENT DURATION	NOMINAL SEGMENT DURATION	NOMINAL SEGMENT DISTANCE	NOMINAL SEGMENT JET TIME
PIT ATL	526	1:09		SFA HNL	2:496
PIT AUS	496	1:09	1:51	SFA NFM	1:019
PIT CLF	105	0:15	0:32	SFA NEW	1:660
PIT DCA	205	0:33		SFA JFK	2:421
PIT DFN	1502	2:54		SFA LAX	0:54
PIT DFW	1067	2:18		SFA WDU	1:599
PIT DTW	201	0:35		SFA ORNL	1:720
PIT FAR	319	0:49	1:17	SFA STA	0:78
PIT FTK	340	0:46	1:24	SFA STI	1:709
PIT GAY	2136	4:36			
PIT LGA	335	0:46			
PIT MIA	1013	2:00			
PIT MSY	918	1:59			
PIT NBO	412	1:04			
PIT PHL	264	0:13			
PIT SEU	2253	4:53			
PIT STI	553	1:22			

TABLE I-1 (CONTINUED)

ROUTE SEGMENT	NOMINAL AIRBORNE TIMES DEPARTING SFO		NOMINAL APPROXIMATE TIMES DEPARTING STI		ROUTE SEGMENT	DISTANCE	NOMINAL JET TIME	NOMINAL PROP TIME	NOMINAL JET TIME	NOMINAL PROP TIME
	SFO	STI	SFO	STI						
SFO ATI	2139	4:00	SFO ATI	4:04					1:04	
SFO HNL	2704	4:58	SFO HNL	1:05					1:58	
SFO CLF	2161	4:11	SFO CLF	4:07					0:56	
SFO DEN	956	1:49	SFO DEN	719					2:12	
SFO DFW	1465	2:45	SFO DFW	761					1:48	
SFO DTW	2079	3:51	SFO DTW	550					1:15	
SFO FNR	2565	4:45	SFO FNR	4:40					0:55	
SFO JFK	2586	4:30	SFO JFK	872					1:04	
SFO LAX	537	0:46	SFO LAX	892					1:49	
SFO MIA	2505	4:56	SFO MIA	1:592					3:20	
SFO MSP	1589	2:56	SFO MSP	888					1:50	
SFO MSY	1911	3:39	SFO MSY	1:068					2:13	
SFO NRT	1816	3:25	SFO NRT	4:08					1:05	
SFO PHL	2521	4:42	SFO PHL	604					1:24	
SFO PIT	2255	4:22	SFO PIT	258					0:38	
SFO SEA	678	1:24	SFO SEA	813					1:37	
SFO STI	1736	3:15	SFO STI	553					1:08	
			SFO STI	1709					3:40	
			SFO STI	1736					3:45	

TABLE I - 2 - 1

AIRBORNE DELAYS BY MONTH
AVERAGES FOR BUSY VS. DULL INTERVALS
FOR ROUTE SEGMENT ATL > DFW

1974				1975				1976				
	#FLIGHTS	DELAY										
JAN					214	0:13			214	0:13		
FEB	223	0:14	54	0:12	319	0:16	26	0:03	542	0:16	40	0:09
MAR	216	0:12	61	0:08	302	0:19	31	0:09	518	0:16	92	0:08
APR	208	0:11	60	0:06	299	0:15	50	0:06	507	0:14	90	0:06
MAY	335	0:05	31	-0:03	360	0:08	50	0:08	695	0:06	61	0:02
JUN	299	0:04	29	-0:04	329	0:05	50	0:02	628	0:04	59	-0:01
JUL	302	-0:06	51	-0:04	336	0:03	31	-0:02	638	0:01	62	-0:03
AUG	358	0:04	31	-0:02	367	0:02	30	-0:08	705	0:03	61	-0:05
SEP	194	0:06	30	0:01	243	0:04	14	-0:04	437	0:06	44	-0:01
OCT	130	0:04	26	-0:02	217	0:05			747	0:05	26	-0:02
NOV	147	0:01	29	0:03	350	0:01	30	0:05	697	0:11	59	0:04
DEC	219	0:13	14	0:07	223	0:10	31	0:05	442	0:11	45	0:06
TOTAL	2411	0:04	196	0:03	3559	0:09	283	0:03	6370	0:08	679	0:03

NOMINAL AIRBORNE TIME = 1:35

---ALL TIMES ARE IN HOURS AND MINUTES---

FIGURE I-2-1
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT ATL TO DFW

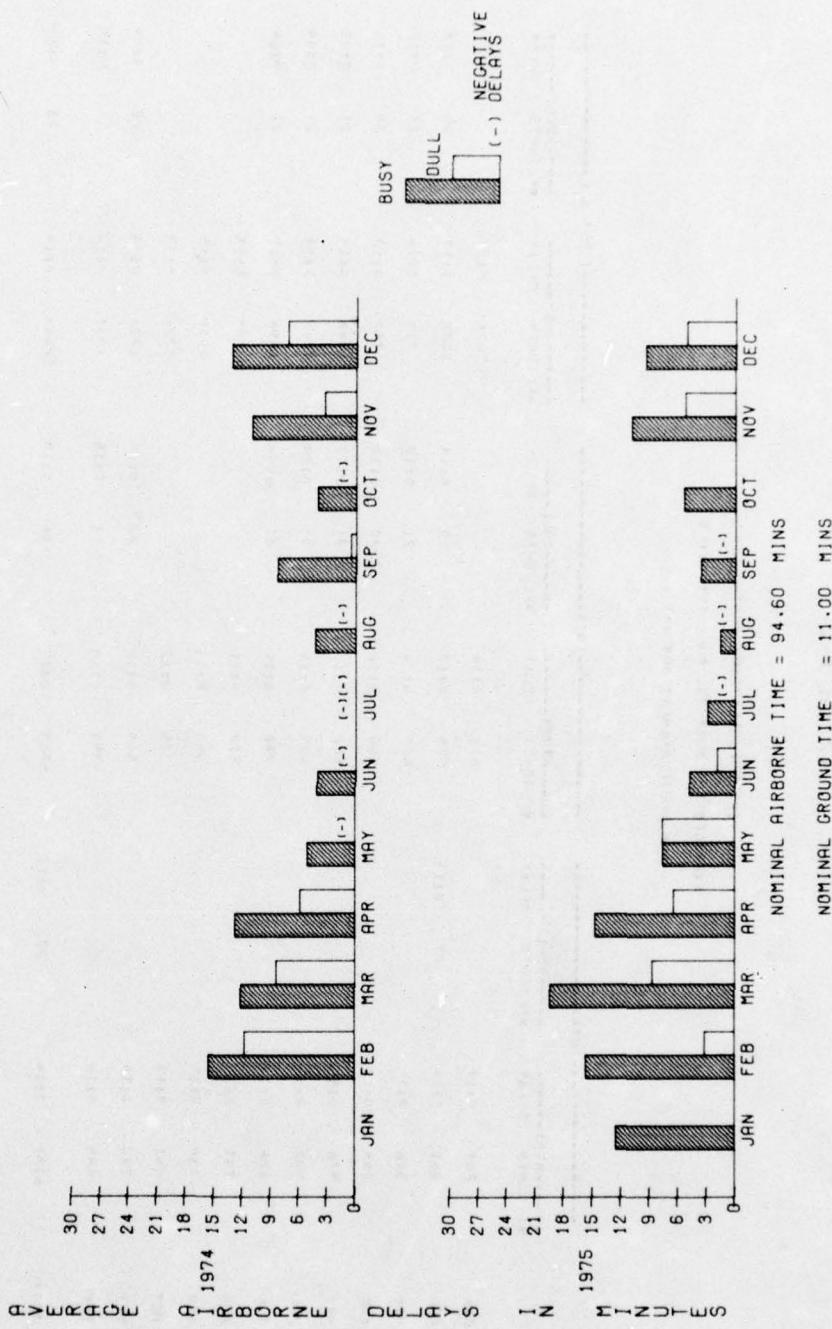


TABLE I-2-2

AVERAGE DELAYS BY MONTH
AVERAGES FOR BUSY VS. DULL INTERVALS
FIR ROUTE SEGMENT RNS => PHI

	1974			1975			TOTAL		
	BUSY FLIGHTS	DELAY	DULL FLIGHTS	DELAY	BUSY FLIGHTS	DELAY	DULL FLIGHTS	DELAY	
JAN	260	0:17	611	0:16	871	0:17	46	0:11	
FEB	451	0:18	27	0:13	575	0:17	1026	0:17	
MAR	306	0:15			400	0:14	21	0:12	
APR	294	0:13			404	0:12	20	0:12	20 0:10
MAY	546	0:15			562	0:11	21	0:07	21 0:07
JUN	590	0:14			475	0:11	21	0:09	21 0:09
JUL	606	0:13			492	0:11	21	0:08	21 0:08
AUG	793	0:15			514	0:11			1307 0:13
SEP	730	0:14			480	0:13			1210 0:15
OCT	751	0:13			475	0:12			1224 0:13
NOV	724	0:14			500	0:12	22	0:09	1224 0:13
DEC	686	0:16			351	0:14	1	0:15	1 0:14
TOTAL	6781	0:15	27	0:13	5863	0:13	146	0:10	12647 0:14
NOTES	AT PHIRNE TIME =								0:42

ALL TIMES ARE IN HOURS AND MINUTES

FIGURE I-2-2
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT BOS TO PHL

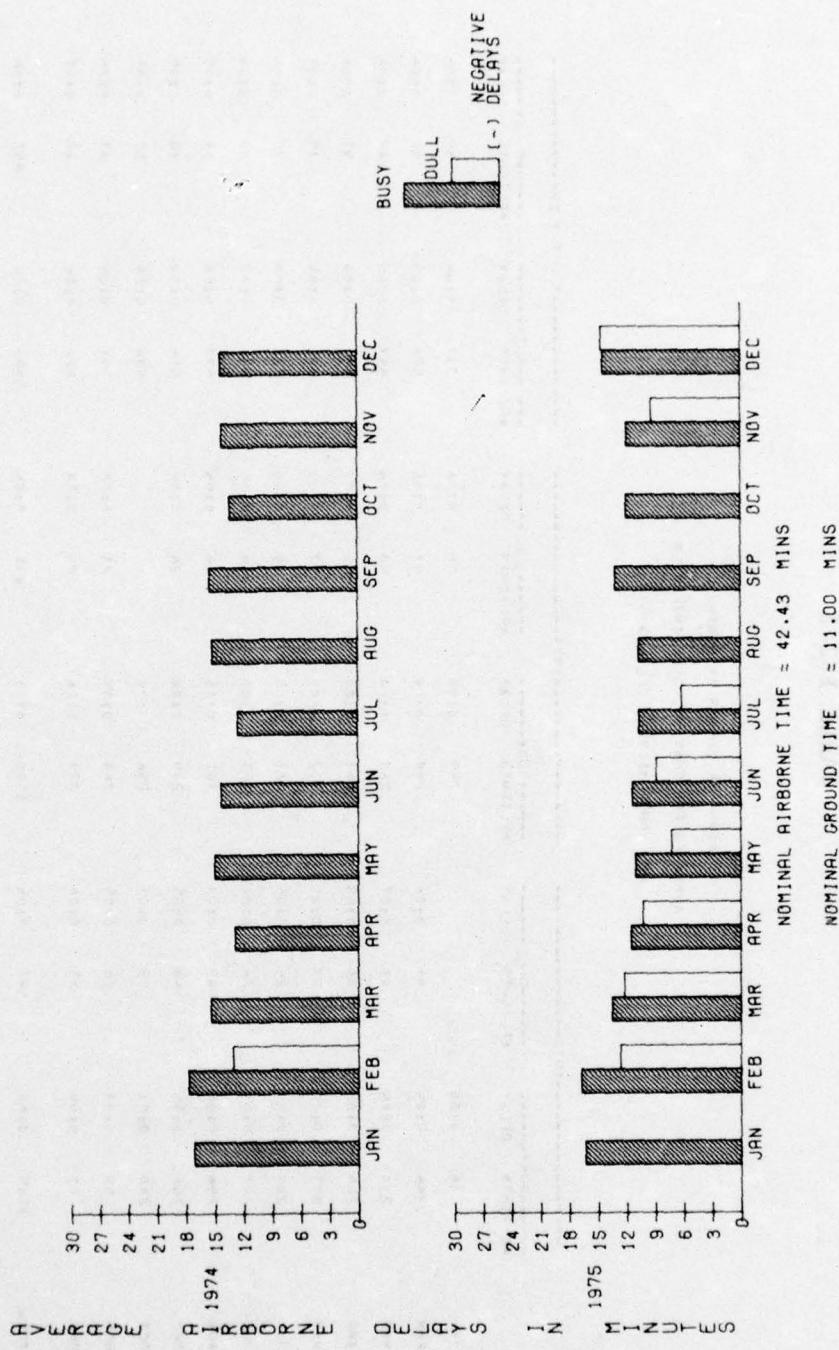


TABLE I-2-3

AIRBORNE DELAYS BY MONTH
AVG FLIGHTS AND BUSY VS. DELAY INTERVALS
FOR ROUTE SEGMENT CLE => DTW

	1974		1975		TOTAL	
	BUSY	DELAY	FLIGHTS	DELAY	FLIGHTS	DELAY
JAN	58	0:04	299	0:04	56	0:04
FEB	266	0:05	41	0:06	260	0:06
MAR	270	0:05	48	0:07	265	0:06
APR	268	0:04	46	0:05	263	0:04
MAY	273	0:04	27	0:05	332	0:04
JUN	246	0:03	25	0:05	241	0:05
JUL	247	0:03	26	0:04	243	0:04
AUG	296	0:04	49	0:04	301	0:05
SEP	266	0:05	44	0:05	249	0:04
OCT	246	0:04	50	0:05	256	0:04
NOV	58	0:03	20	0:05	243	0:05
DEC	43	0:04	17	0:04	279	0:06
TOTAL	2546	0:06	391	0:05	3149	0:04

NORMAL AIRBORNE TIME = 0:21

---ALL TIMES ARE IN HOURS AND MINUTES---

FIGURE I-2-3
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT CLE TO DTW

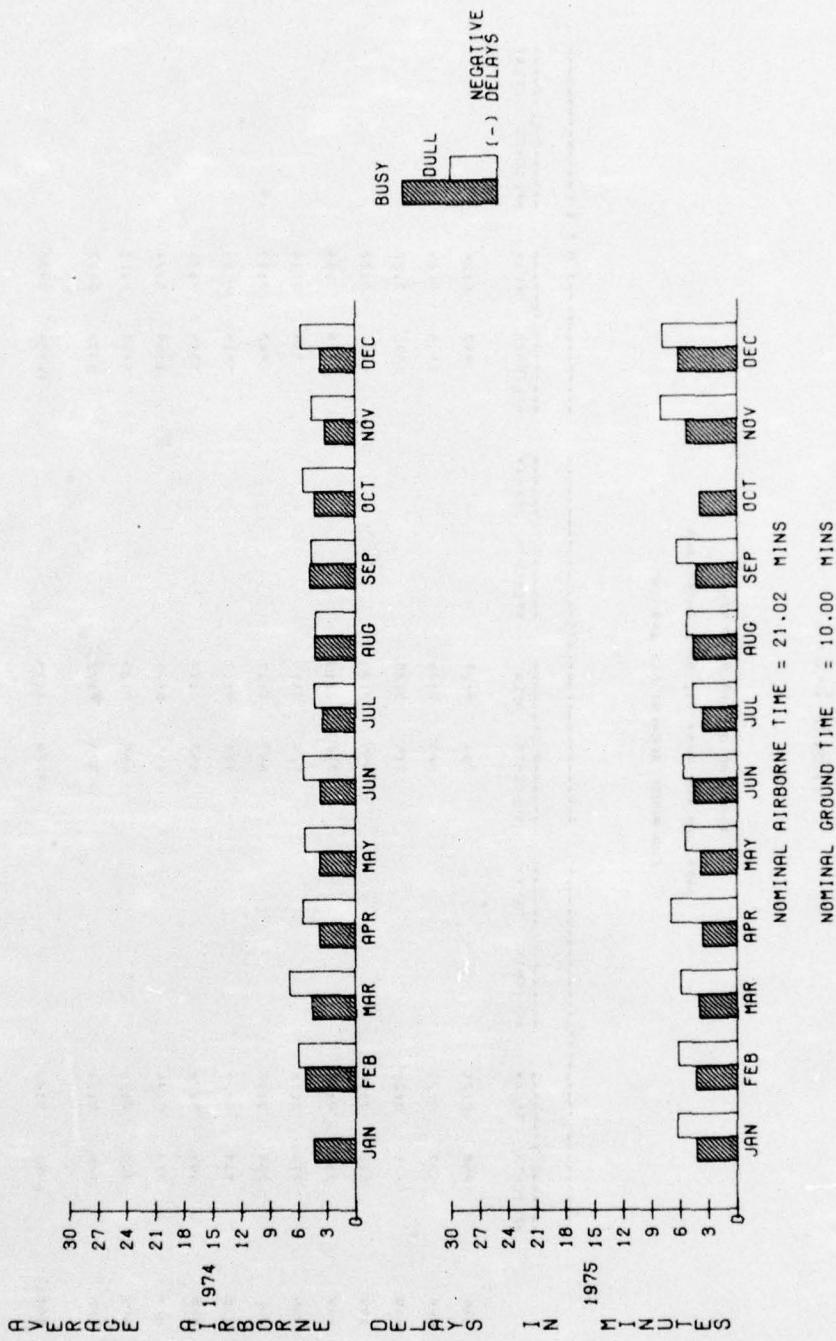


TABLE I - 2 - 4

AVERAGE DELAYS BY MONTH
AVWAES FOR BUSY VS. DULL INTERVALS
FROM PROUD STATEMENT DCA 222100

	1974			1975		
	BUSY FLIGHTS	DELAY	DULL FLIGHTS	DELAY	BUSY FLIGHTS	DELAY
JAN	258	0:20	754	0:27	992	0:26
FEB	521	0:24	623	0:26	1146	0:25
MAR	626	0:26	715	0:20	1341	0:22
APR	611	0:18	655	0:24	1266	0:22
MAY	258	0:26	740	0:15	978	0:15
JUN	214	0:16	624	0:15	838	0:16
JUL	205	0:14	657	0:11	862	0:12
AUG	743	0:20	770	0:12	1515	0:16
SEP	691	0:24	658	0:14	1349	0:21
OCT	714	0:26	655	0:21	1369	0:24
NOV	723	0:20	680	0:23	1401	0:21
DEC	705	0:23	573	0:22	1274	0:22
TOTAL	6251	0:22	8084	0:19	14356	0:20

INTERVAL AVERAGE TOTAL = 1:27

ALL TIMES ARE IN HOURS AND MINUTES

FIGURE I-2-4
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT DCA TO ORD

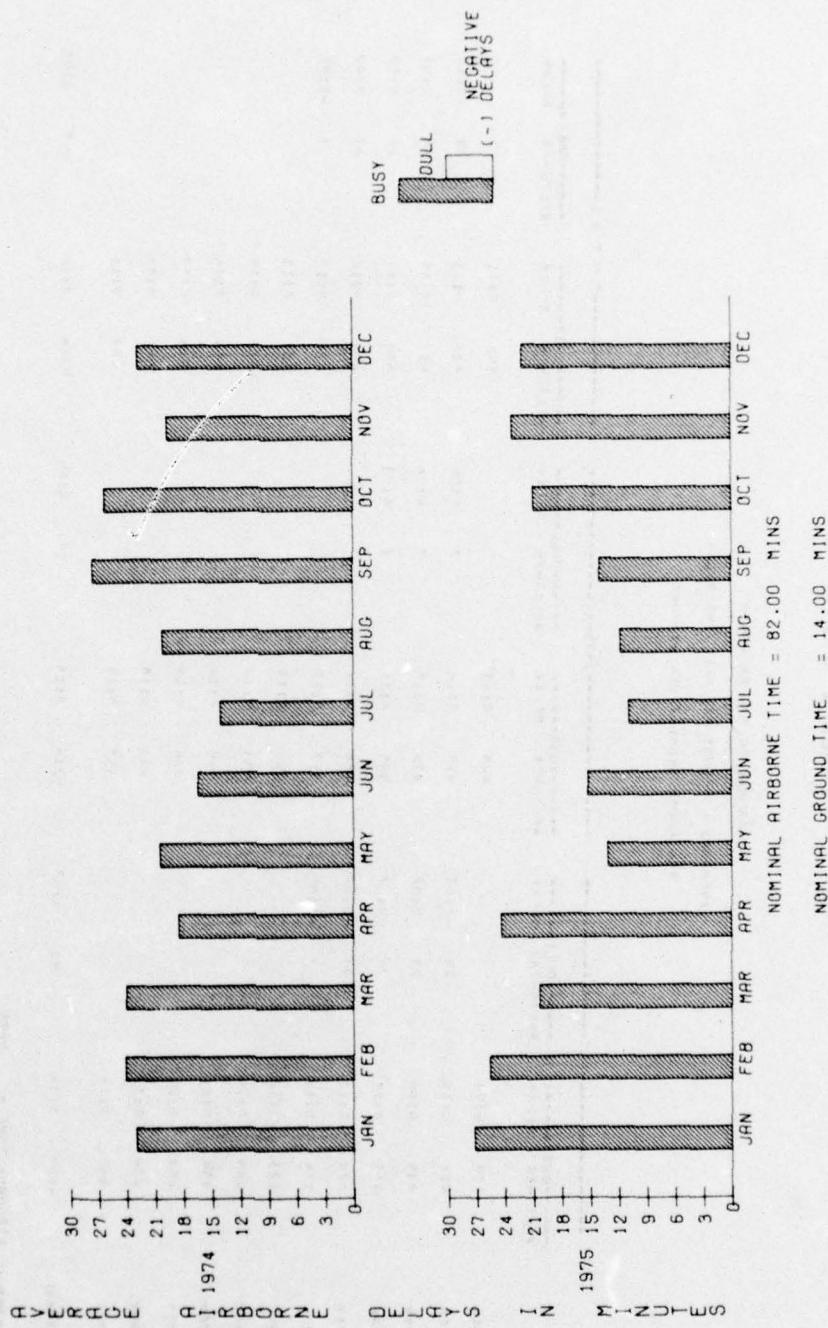


TABLE I-2-5

ATRAME DELAYS BY MONTH
AVERAGES FROM BUSY VS. NULL INTERVALS
FIVE MINUTE SEGMENT DATA USED

	1974		1975	
	BUSY FLIGHTS	NULL FLIGHTS	BUSY FLIGHTS	NULL FLIGHTS
JAN	108	0:00	948	0:13
FEB	411	0:11	23	0:03
MAR	435	0:00	27	0:02
APR	413	0:11	21	0:02
MAY	120	0:10	21	0:02
JUN	116	0:14	1	-0:00
JUL	123	0:12	360	0:10
AUG	495	0:10	435	0:12
SEP	454	0:21	460	0:11
OCT	450	0:22	466	0:14
NOV	439	0:16	441	0:10
DEC	446	0:16	457	0:15
TOTAL	40000	0:15	95	0:02
NORMAL ATRAME TIME	1891			

NORMAL ATRAME TIME

1891

--- ALL TIMES ARE IN HOURS AND MINUTES ---

FIGURE I-2-5
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT DEN TO ORD

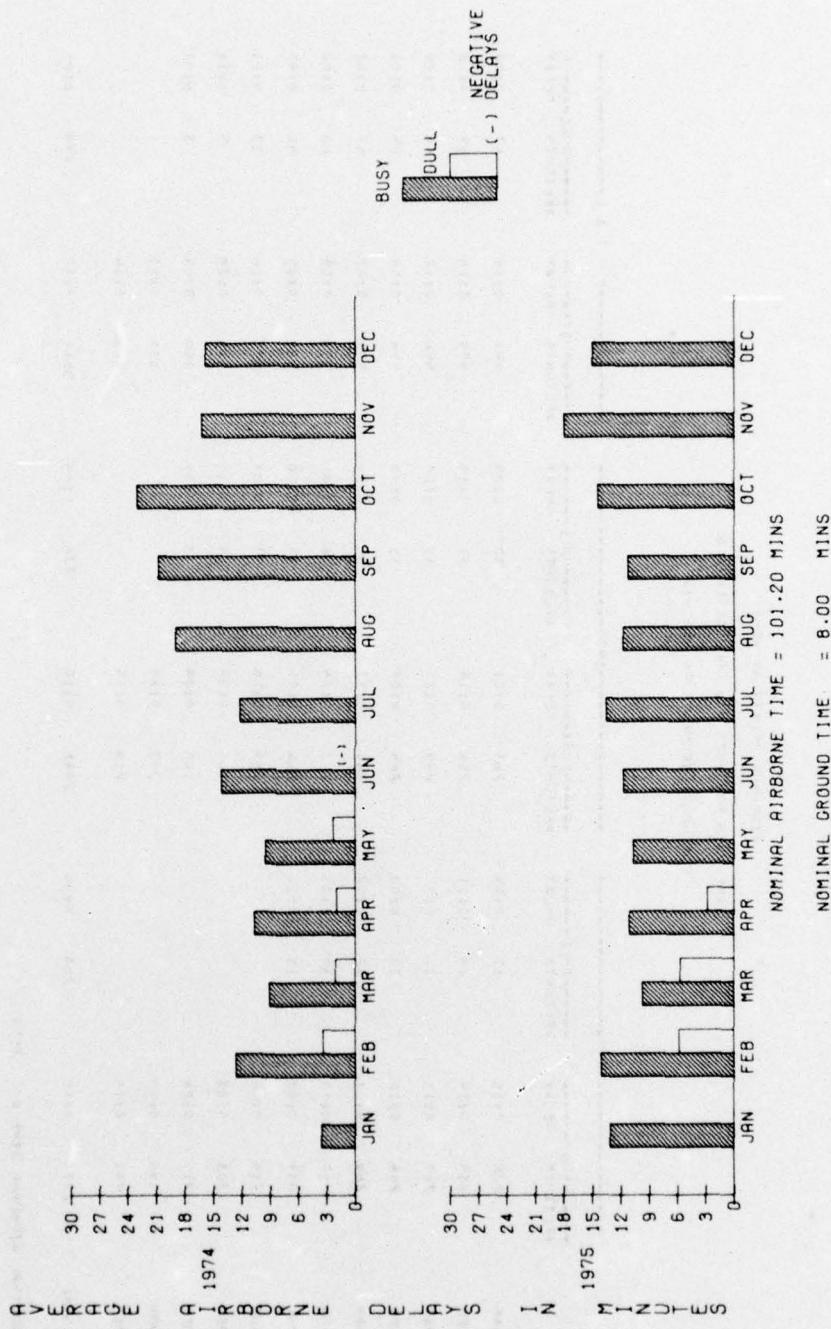


TABLE I - 2 - 6

AVERAGE DELAYS BY MONTH
AVGFRACES FOR HUSTY VS. DULL INTERVALS
FOR WHITE SEASAT JFK & MIA

1974				1975				1976				
	HUSTY	DULL	DELAY	HUSTY	DULL	DELAY	HUSTY	DULL	DELAY	HUSTY	DELAY	
#FLIGHTS	DELAY											
JAN	228	0:10	.57	0:09	263	0:17	30	0:09	401	0:16	67	0:09
FEB	215	0:15	24	0:11	254	0:14	51	0:13	480	0:16	59	0:12
MAR	267	0:13	31	0:04	269	0:11	55	0:08	556	0:12	66	0:06
APR	266	0:10	30	0:04	268	0:08	55	0:04	514	0:09	65	0:04
MAY	264	0:07	32	0:02	264	0:07	55	0:01	524	0:07	67	0:02
JUN	257	0:10	30	0:03	267	0:06	50	0:01	504	0:08	64	0:02
JUL	237	0:09	15	0:02	264	0:06	55	-0:00	501	0:05	50	0:00
AUG	216	0:06			259	0:06	51	0:01	475	0:06	33	0:01
SEP	203	0:04			165	0:04	5	0:11	368	0:08	5	0:11
OCT	211	0:04			148	0:09	5	0:07	559	0:09	3	0:07
NOV	198	0:12			203	0:10			401	0:11		
DEC	211	0:15			214	0:15			425	0:14		
TOTAL	2773	0:10	204	0:05	2838	0:10	276	0:05	5611	0:10	479	0:05

TOTAL AIRPORT TIME = 2114

ALL TIMES ARE IN HOURS AND MINUTES

FIGURE I-2-6
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT JFK TO MIA

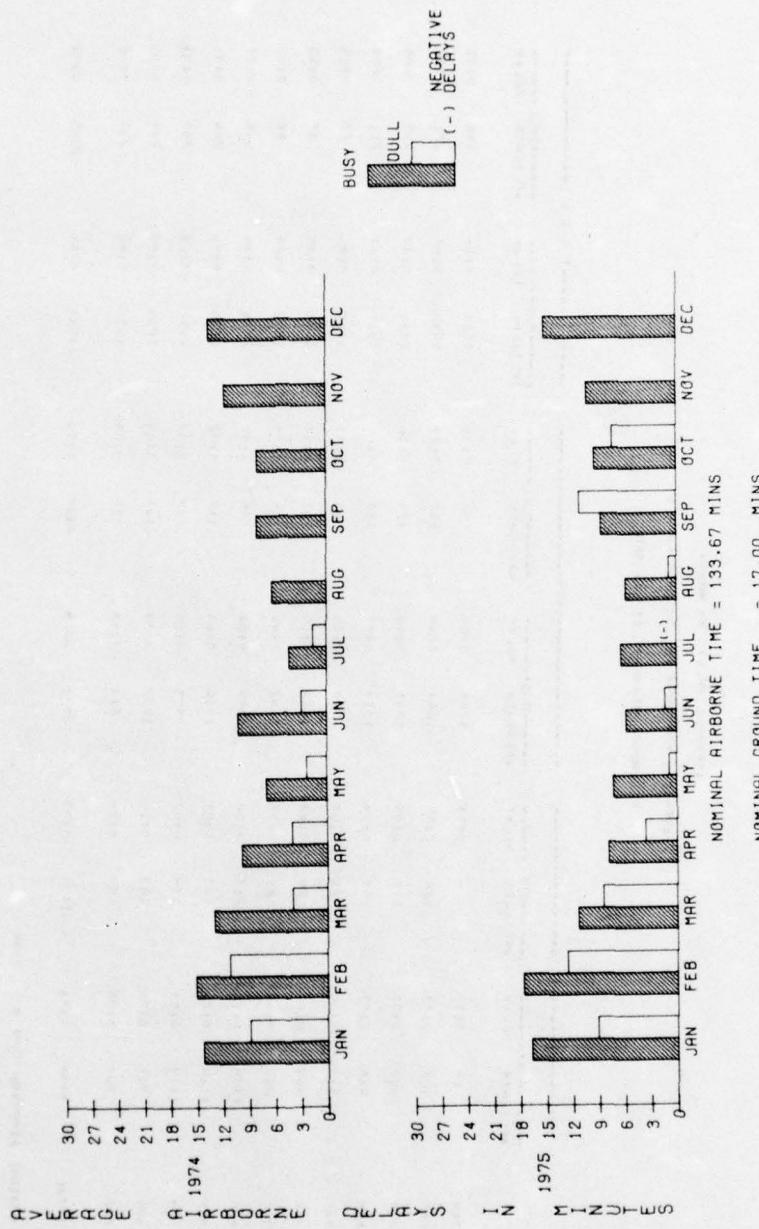


TABLE I - 2-7

AVERAGE DELAYS BY MONTH
AVGACES FOR BUSY VS. DULL INTERVALS
♦ ONE ROUTE SEGMENT LAX 222 SFO

		1974		1975	
	#FLIGHTS	DELAY	#FLIGHTS	DELAY	#FLIGHTS
JAN	40	0:10	4	0:13	1088
FEB	988	0:07	128	0:05	150
MAR	1000	0:07	118	0:05	147
APR	940	0:07	99	0:04	115
MAY	2400	0:05	23	0:03	112
JUN	269	0:05	26	0:03	1062
JUL	267	0:04	25	0:03	1092
AUG	1305	0:05	213	0:02	1209
SEP	1165	0:04	147	0:01	1014
OCT	1170	0:04	134	0:02	973
NOV	745	0:04	105	0:04	1090
DEC	760	0:04	49	0:05	815
TOTAL	4938	0:04	1125	0:03	12595
NORMAL AIRPORT TIME =				0:04	1304
				21533	0:06
				2465	0:04

Normal Airport Time = 0:04

---ALL TIMES ARE IN HOURS AND MINUTES---

FIGURE I-2-7
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT LAX TO SFO

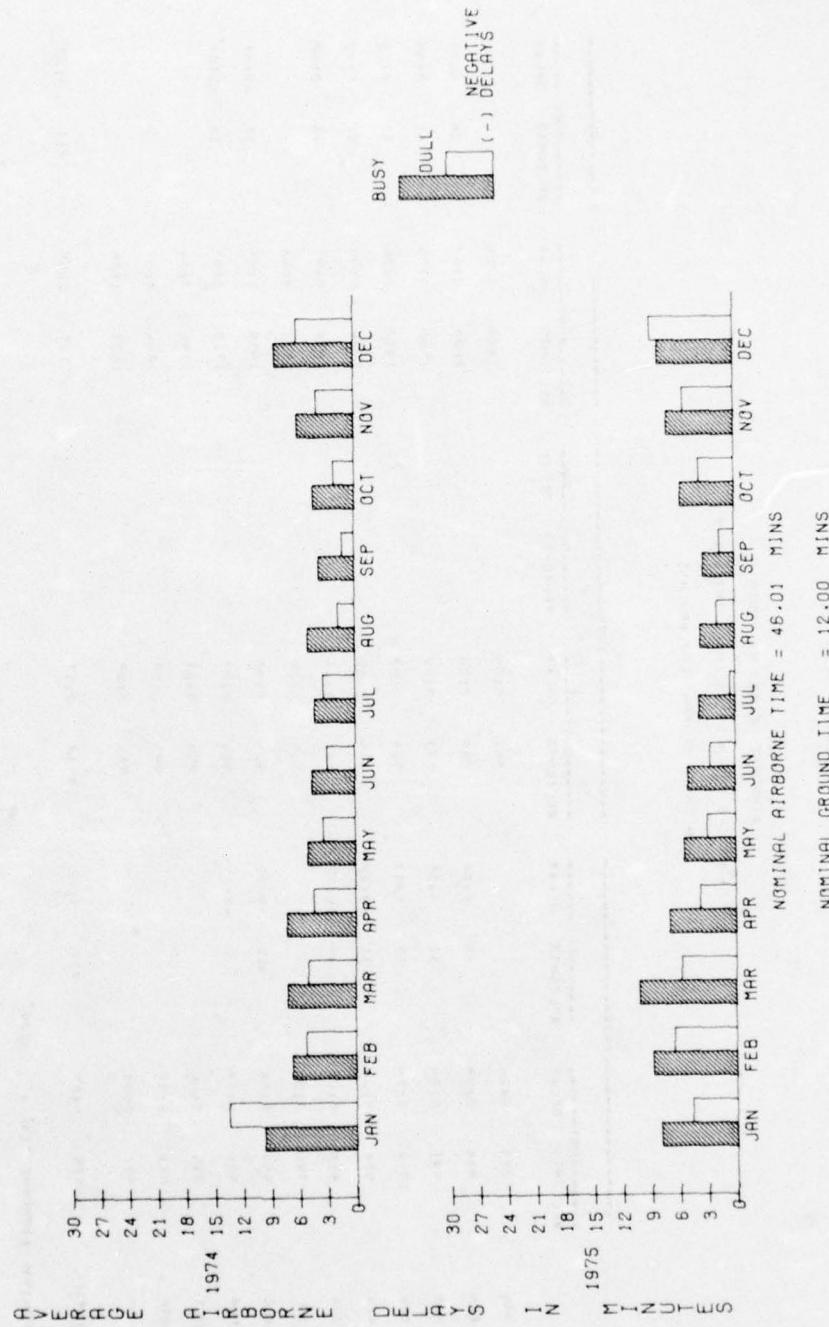


TABLE I - 2-8

AIRPHONE DELAYS BY MONTH
AVERAGES FOR HUSSY VS. DULL INTERVALS
FROM PRIVATE SEGMENT LGA => HNS

	1974		1975		1976	
	HUSSY	DELAY	HUSSY	DELAY	HUSSY	DELAY
	#FLIGHTS	#FLIGHTS	#FLIGHTS	#FLIGHTS	#FLIGHTS	#FLIGHTS
JAN	773	0:06	947	0:06	1620	0:06
FEB	808	0:04	760	0:06	1624	0:07
MAR	991	0:06	873	0:06	1864	0:06
APR	1004	0:06	928	0:07	1932	0:06
MAY	974	0:06	955	0:07	1920	0:06
JUN	884	0:07	794	0:08	1640	0:07
JUL	746	0:07	755	0:09	1521	0:08
AUG	954	0:04	925	0:08	1840	0:08
SEP	806	0:07	804	0:07	1710	0:07
OCT	845	0:06	956	0:07	1795	0:06
NOV	873	0:07	993	0:08	1864	0:07
DEC	837	0:07	846	0:09	1683	0:08
TOTAL	10575	0:07	10537	0:07	21107	0:07
FINAL AIRPHONE TIME =						211

FINAL AIRPHONE TIME = 0:29

ALL TIMES ARE IN HOURS AND MINUTES

FIGURE I-2-8
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT LGA TO BOS

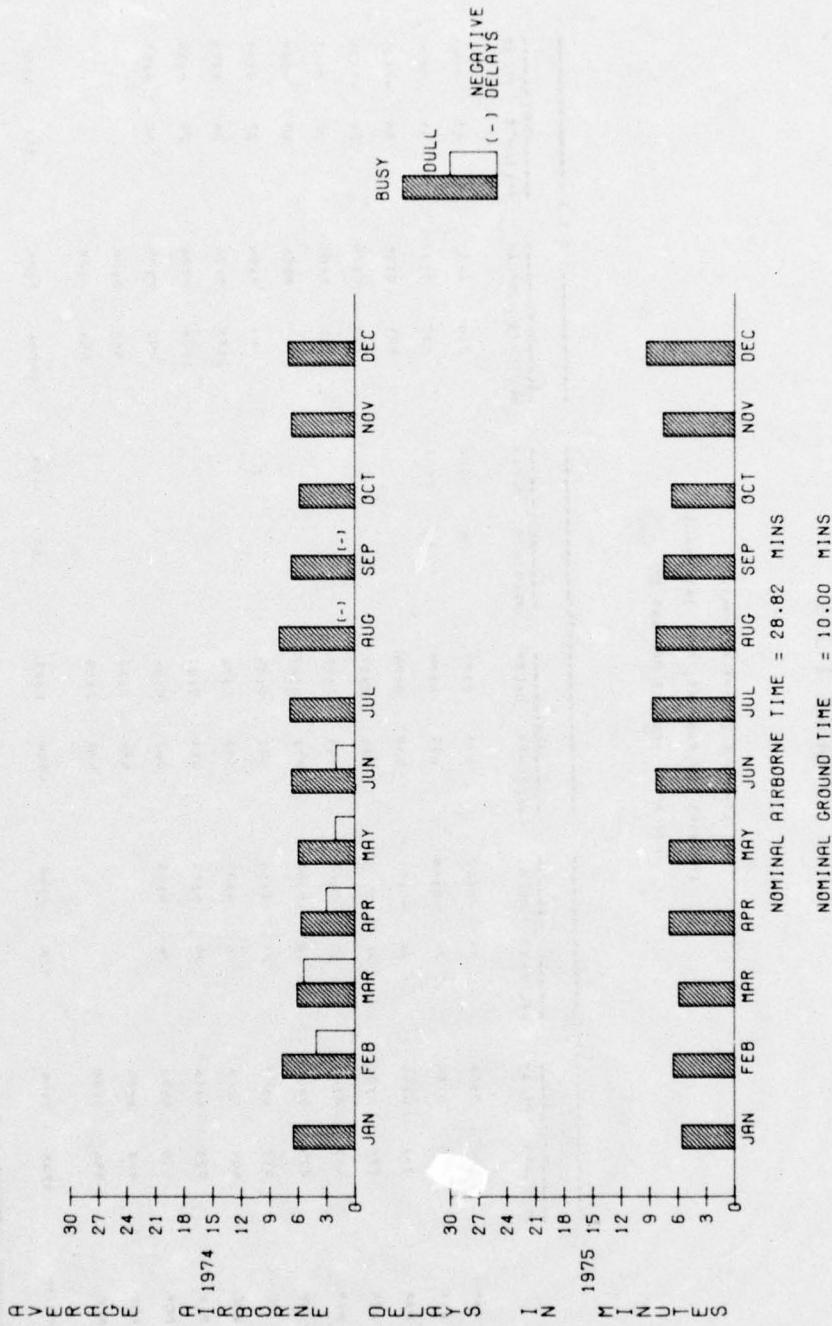


TABLE I-2-9

ATMOSPHERE DELAYS BY MONTH
AVERAGE FOR BUSY VS. QUIET INTERVALS
FOR ROUTE SEGMENT TWO \Rightarrow STI

	1970		1975		1976	
	BUSY DELAY	QUIET DELAY	BUSY DELAY	QUIET DELAY	BUSY DELAY	QUIET DELAY
JAN	272	0:08	25	0:02	477	0:07
FEB	128	0:05	28	0:04	479	0:07
MAR	307	0:04	26	0:01	530	0:06
APR	270	0:04	26	0:05	474	0:07
MAY	502	0:05	50	0:01	554	0:06
JUN	425	0:04	49	0:00	477	0:07
JUL	412	0:01	27	0:04	437	0:05
AUG	540	0:06	26	0:04	542	0:06
SEP	523	0:06	25	0:04	483	0:07
OCT	510	0:04	26	0:03	462	0:06
NOV	424	0:05			536	0:10
DEC	356	0:05			503	0:09
TOTAL	4948	0:05	308	0:00	5298	0:07
NOTABLE ATMOSPHERE TIME =	0:54					
					10048	0:10
					351	0:01

TOTAL TIMES AND IN HOURS AND MINUTES-----

FIGURE I-2-9
AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
ROUTE SEGMENT ORD TO STL

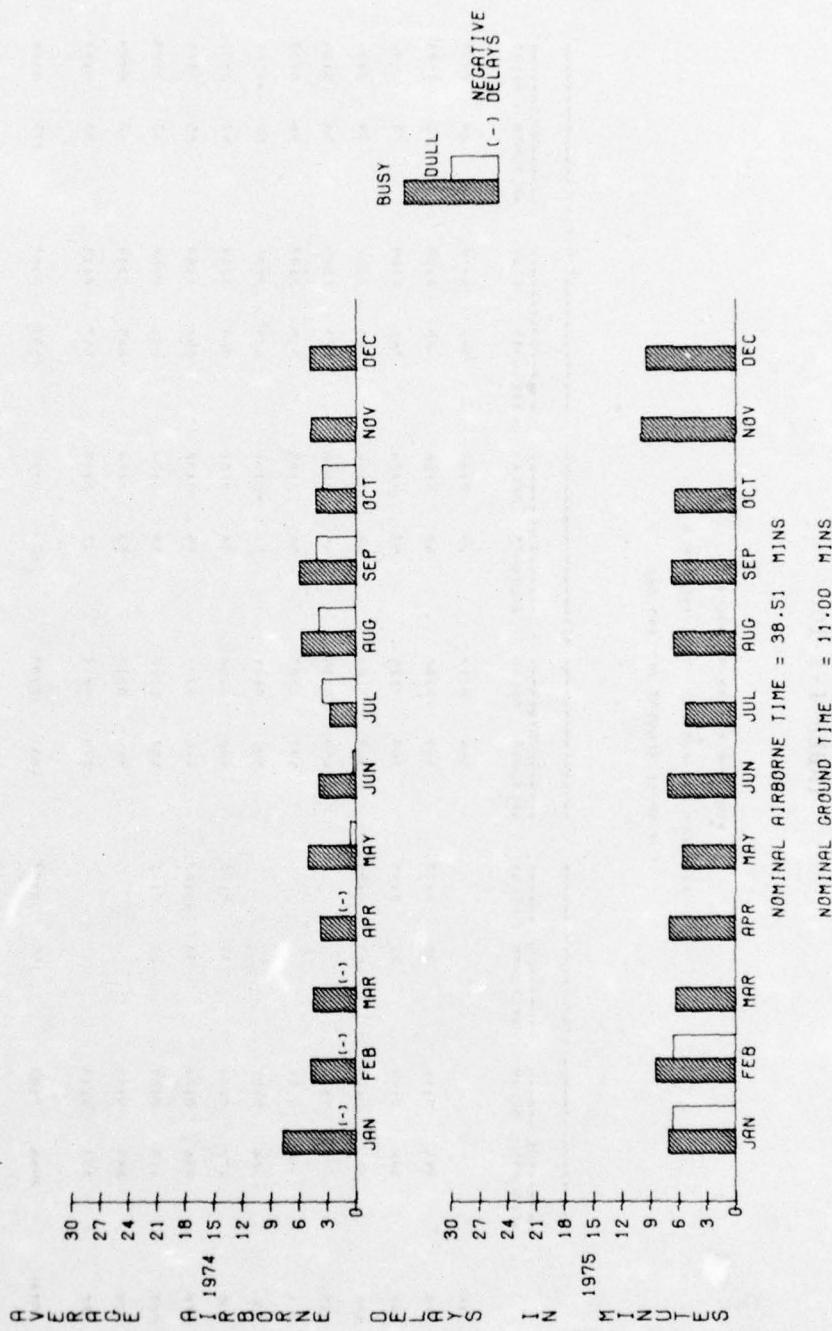


TABLE I-2-10

ATMOSPHERE DELAYS AT MINUTE
AVAILABILITY VS. DULL INTERVALS
FILE WRITE SEGMENT SFT => SKA

		1974		1975				
		BUSY	DULL	BUSY	DULL	BUSY	DULL	
		FLIGHTS	DELAY	FLIGHTS	DELAY	FLIGHTS	DELAY	
JAN		164	0:12	20	0:08	164	0:12	
FFR	353	0:10	20	0:07	355	0:08	355	0:09
S42	0:04	22	0:05	569	0:10	57	0:08	
HAO				343	0:04	54	0:04	
APP	378	0:09	23	0:04			721	0:09
MAY	a	0:04		419	0:09	56	0:09	
JUN	13	0:06		597	0:07	56	0:07	
JUL	26	0:07		194	0:01	57	-0:01	
AGG	472	0:04	31	0:00	488	0:04	56	0:01
SFP	436	0:04	16	-0:02	416	0:04	452	0:04
NET	419	0:07	29	0:01	417	0:08	58	0:04
NNU	230	0:09		415	0:10	52	0:06	
NFR	243	0:11		274	0:13	46	0:07	
NTA	2964	0:07	155	0:02	4651	0:04	7597	0:04
TOTAL								
MINIMUM ATTEMPT TIME =								

----- THIS IS THE MINIMUM AND MAXIMUM -----

FIGURE I-2-10
 AIRBORNE DELAYS BY MAJOR ROUTE SEGMENT
 MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS
 ROUTE SEGMENT SFO TO SEA

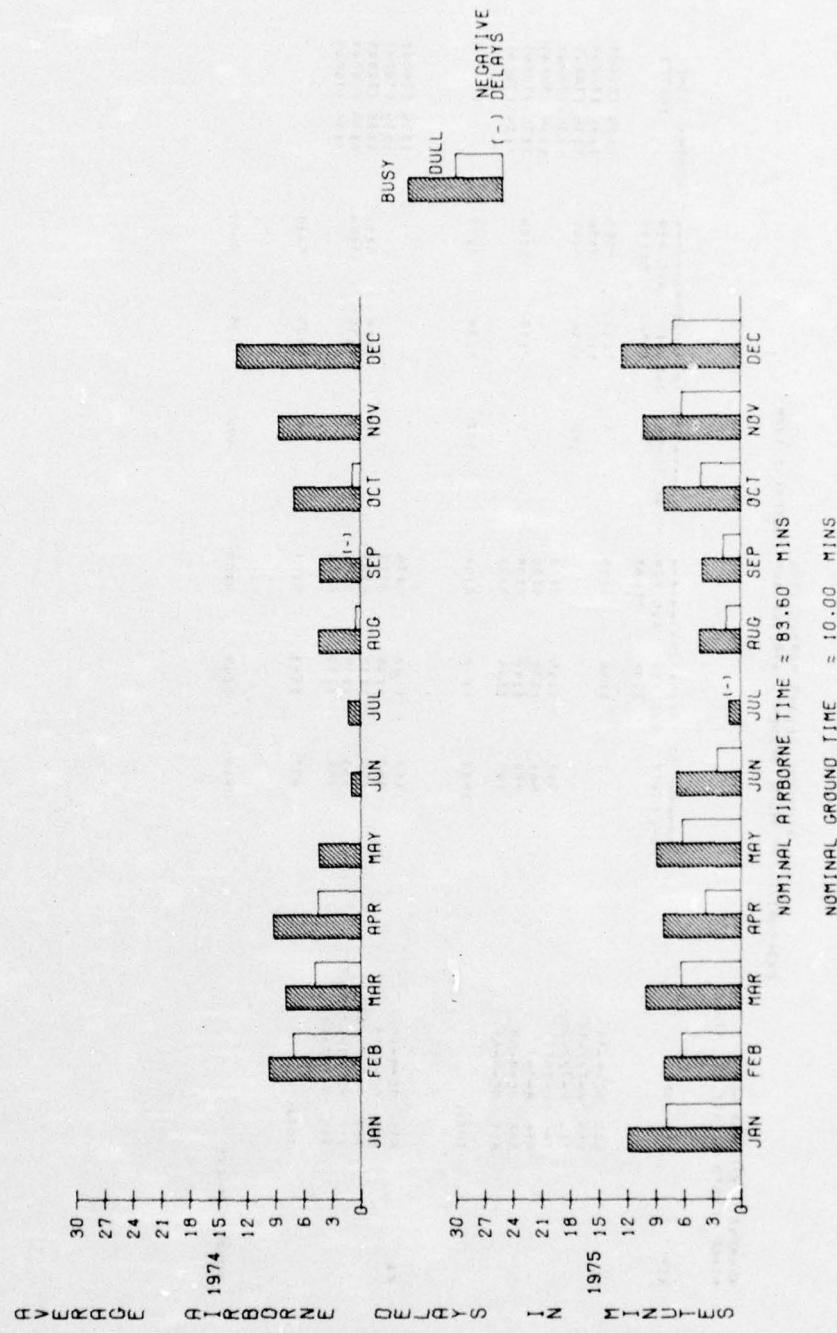


TABLE I-3-1

CATEGORIZED BY ORIGIN STATION, AIRLINE AND EQUIPMENT TYPE

SEGMENT ATI => OFW STAGE LENGTH = 711 NM.	AIRCRAFT	HUSY (0700-2259)			(2300-0659)			NOMINAL TIME (DATE)
		#FLIGHTS	Avg Atk Time	Avg Air Delay	#FLIGHTS	Avg Atk Time	Avg Air Delay	
NL	NC-9-30 710 R-77-100 715 H-72-100 760 I-1011 A16 A-767 AOA NC-9-50 AS1 NC-9-61	2 142 561 784 145 1431	1:54 1:45 1:30 0:00 0:00 1:43	0:10 0:11 0:00 0:00 0:11 0:04	3 502 507 1 507 507	1:40 1:41 1:36 1:59 1:59 1:36	0:05 0:06 0:01 0:04 0:04 0:01	1:35 (7/04) 1:35 (7/04) 1:35 (7/04) 1:35 (7/04) 1:35 (7/04) 1:35 (7/04)
F4	A10 NC-9-10 640 NC-9-50 710 R-77-100 711 H-72-100C/F 715 H-72-100	118 148 150 153 155 TOTAL	1:02 1:48 1:38 1:50 1:39 977	0:10 0:13 0:03 0:04 0:04 0:03 1:43	87 2 1:18 0:0 0:0 89	1:46 1:46 1:38 1:45 1:45 1:45	0:11 0:04 0:04 0:04 0:04 0:11	1:35 (7/04) 1:35 (7/04) 1:35 (7/04) 1:35 (7/04) 1:35 (7/04) 1:35 (7/04)
ROUTE SUMMARY		2811	1:42	0:00	196	1:34	0:05	

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-3-2

CATEGORIZED AIRBORNE DELAYS DURING 1974
ACROSS ROUTE SEGMENTS, AIRLINE AND EQUIPMENT TYPE

SEGMENT	AIRS & PHL	STAGE LENGTH = 200 ST. MILES	NOMINAL (0700-0659)				NOMINAL TIME			
			FLIGHTS	Avg ATR	Avg AIR	ATR	FLIGHTS	Avg AIR	Avg AIR	DISPLAY
AIRLINES										
AA	710 R=727-100		1	1100	0:11A		0:142 (7210)			
	715 R=727-200		75	0:115	0:112		0:142 (7210)			
	NC=100-10		121	0:155	0:112		0:142 (7210)			
	8C2 R=707-100H		130	0:155	0:113		0:142 (7210)			
	808 R=707-100H		32	0:154	0:111		0:142 (7210)			
	809 R=707-100C		76	0:155	0:113		0:142 (7210)			
	TOTAL		429	0:155	0:113					
AIRLINES										
AA	430 FV+5A0		21	1115	-0:109		0:124 (7204)			
	R=1-1-200		142A	1100	0:117		0:142 (7210)			
	605 R=1-200		2241	0:157	0:114		0:142 (7210)			
	606 NC=9-20									
	TOTAL		4097	0:154	0:115					
AIRLINES										
AA	600 NC=9-20		907	0:157	0:115		0:142 (7210)			
	715 R=727-200		1017	0:154	0:112		0:142 (7210)			
	TOTAL		1050	0:154	0:113		0:142 (7210)			
AIRLINES										
AA	710 R=727-100		104	0:157	0:115		0:142 (7210)			
	711 R=727-100C/HIC		61	0:157	0:114		0:142 (7210)			
	715 R=727-200		14	0:155	0:113		0:142 (7210)			
	TOTAL		179	0:157	0:114		0:142 (7210)			
AIRLINES										
AA	808 R=707-100H		101	1:00	0:117		0:142 (7210)			
	809 R=707-100C		41	0:158	0:114		0:142 (7210)			
	TOTAL		142	0:159	0:117		0:142 (7210)			

TOTAL TIMES AND MINUTES

TABLE I-3-2 (CONTINUED)

AIRLINE DELAYS DURING 1974
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE
SEGMENT: BNA => PHL (CONTINUED)
STAGE LENGTH = 280 MI LS

AIRLINE	AIRCRAFT	0700-2259				2300-0659				NOMINAL TIME (NATF)
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY			
UNIT SUMMARY		6761	0157	0115	27	0155	0113			

--- ALL TIMES ARE IN HOURS AND MINUTES ---

TABLE I-3-3

CATEGORIZED AIRBORNE DELAYS DURING 1974
CATALOGIZED BY ROUTE SEGMENT, AIRTIME AND EQUIPMENT TYPE

SEGMENT CLE => RTW		BUSY (0700-2259)				DULL (2300-0659)				NOTHAB TIME (DATE)	
AIRTIME	AIRCRAFT	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	TIME	DATE	TIME	DATE
AL	605 R=11-200	26	0:125	0:104						0:118 (7202)	
	TOTAL	26	0:125	0:104							
AL	640 NC-Q-SN	337	0:120	0:102						0:118 (7202)	
	TOTAL	337	0:120	0:102							
FA	710 R=727-100	34	0:124	0:107						0:118 (7202)	
	711 R=727-100C/NC	3	0:125	0:104						0:118 (7202)	
	TOTAL	42	0:124	0:107							
NC	450 RV-S60	1409	0:126	0:104						0:124 (7202)	
	640 NC-Q-SN	542	0:120	0:106						0:118 (7202)	
	TOTAL	1951	0:127	0:104							
NW	710 R=727-100	102	0:125	0:106						0:118 (7202)	
	715 R=727-200	87	0:124	0:106						0:118 (7202)	
	TOTAL	189	0:123	0:106							
NA	450 NC-R-S60									0:115	0:118 (7202)
	TOTAL									162	
										162	0:122
											0:105

--- ALL TIMES ARE IN HOURS AND MINUTES ---

TABLE I - 3 - 3 (CONTINUED)

AIRLINE DELAYS DURING 1974
PATTERNED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT CLF > NYN (CONTINUED)		HISY (0700-2259)				DUL (2300-0659)				NOMINAL TIME (DATE)	
AIRLINE	AIRCRAFT	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY				
STAF	LN67H	2605	0:125	0:04	303	0:23	0:05				
	ROUTE SUMMARY										

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-3-4

CATALOGIZATION BY AIRLINE SEGMENT, AIRLINES AND EQUIPMENT TYPE
AIRCRAFT DELAYS DURING 1974

SEGMENT DCA 880-1000 STAFF LENGTH = 612 ST. WILFS		CATALOGIZATION BY AIRLINE SEGMENT, AIRLINES AND EQUIPMENT TYPE						NOMINAL TIME	
AIRLINE	AIRCRAFT	CATALYST (700-2250)			CATALYST (2300-0659)			(DAFF)	
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY		
A.A.	710 R-727-100	2605	1145	0:23	1122 (7207)				
	715 R-727-200	1059	1143	0:21					
	TOTAL	3664	1144	0:22					
T.W.	710 R-727-100	142	1139	0:17	1122 (7207)				
	711 R-727-100C/QC	105	1139	0:17					
	715 R-727-200	974	1145	0:23					
	TOTAL	1423	1143	0:21					
U.A.	620 R-737-200	213	1144	0:22	1122 (7207)				
	710 R-727-100	422	1147	0:25					
	711 R-727-100C/QC	162	1141	0:16					
	715 R-727-200	987	1145	0:23					
	TOTAL	1784	1145	0:23					
	ROUTE SUMMARY	6251	1144	0:22					

— ALL TIMES ARE IN HOURS AND MINUTES —

TABLE I-3-5

ALARMS/DELAYS DURING 1974
CATEGORIZED BY ROUTE SEGMENT, AIRLINES AND EQUIPMENT TYPE

SEGMENT DEPARTURE STAFF LENGTH = 900 ST. MILES	AIRCRAFT	BUSY (0700-2259)			(2300-0459)			NOMINAL TIME (DATE)
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	
R7	715 R-727-200	720	1:55	0:10	8	1:48	0:07	1:01 (7212)
	730 NC=10-10	689	1:54	0:13	85	1:43	0:02	1:01 (7212)
	R14 R-720=000H	26	1:55	0:10				1:41 (7212)
	TOTAL	1,435	1:55	0:13	93	1:44	0:02	
T4	710 R-727-100	154	1:55	0:14				1:41 (7212)
	711 R-727-100C/OC	43	1:54	0:13				1:41 (7212)
	715 R-727-200	400	2:01	0:10				1:41 (7212)
	802 R-707-100H	342	1:57	0:15				1:41 (7212)
	806 R-707-200H	22	1:51	0:10				1:41 (7212)
	808 R-707-300R	52	1:57	0:16				1:41 (7212)
	809 R-707-400C	4	1:54	0:17				1:41 (7212)
	825 CV-B700	167	1:50	0:09				1:41 (7212)
	TOTAL	1,184	1:57	0:16				
								1:41 (7212)
UA	620 R-757-200	5	2:03	0:27				1:41 (7212)
	710 R-727-100	346	1:58	0:16				1:41 (7212)
	711 R-727-100C/OC	41	1:55	0:14				1:41 (7212)
	715 R-727-200	39	1:54	0:13				1:41 (7212)
	730 NC-10-10	590	2:00	0:10				1:41 (7212)
	816 R-707	27	2:00	0:19				1:41 (7212)
	842 NC-8-20	1156	0:15					1:41 (7212)
	848 NC-8-5H	11	2:01	0:20				1:41 (7212)
	851 NC-8-5H	36	1:55	0:14				1:41 (7212)
	851 NC-8-61	174	1:58	0:17				1:41 (7212)
	854 NC-8-6?	54	1:50	0:09				1:41 (7212)
	TOTAL	1,361	1:58	0:17				
								1:41 (7212)
	ROUTE SUMMARY	4,000	1:57	0:15	93	1:44	0:02	

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE I - 3 - 6

AIRPORT DELAYS DURING 1974
CATEGORIZED BY HOUR SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT JPK 200 via STAGE LENGTH = 1099 ST. MILES		BUSY (0700-2259)				DUL (2300-0559)				NOMINAL TIME (DATE)	
AIRLINE	AIRCRAFT	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	
AN	DC-A-50 DC-B-62	16 281	2:132 2:129	0:118 0:115	16	2:132	0:118	0:118	2:114 (7209)	2:114 (7209)	
	TOTAL	297	2:129	0:116							
DL	R-727-200 R-730 DC-10-10 L-1011 R-48 DC-8-60 R-51 DC-R-61	415 106 3 156 5	2:116 2:130 2:127 2:125 2:138	0:103 0:117 0:114 0:111 0:125	415 106 3 156 5	2:116 2:130 2:127 2:125 2:138	0:103 0:117 0:114 0:111 0:125	415 106 3 156 5	2:114 (7209)	2:114 (7209)	
	TOTAL	465	2:121	0:107							
FA	DC-9-10 R-727-100 R-711 R-727-100/AC R-715 R-727-200 L-1011	640 710 711 715 710	2:134 2:125 2:121 2:125 2:124	0:124 0:112 0:109 0:111 0:109	640 710 711 715 710	2:134 2:125 2:121 2:125 2:124	0:124 0:112 0:109 0:111 0:109	640 710 711 715 710	2:114 (7209)	2:114 (7209)	
	TOTAL	1424	2:124	0:116							
NA	R-727-100 R-715 R-727-200 DC-10-10 DC-10-10 R-732 DC-10-10 R-747 R-16 R-42 DC-8-20 R-50 DC-8-50 R-51 DC-R-61	7 8 87 51 97 55 1A 1A 1A 1A 1A 1A	2:121 2:125 2:122 2:123 2:125 2:127 2:133 2:127 2:125	0:107 0:111 0:104 0:109 0:112 0:113 0:119 0:110 0:111	7 8 87 51 97 55 1A 1A 1A 1A 1A 1A	2:121 2:125 2:122 2:123 2:125 2:127 2:133 2:127 2:125	0:107 0:111 0:104 0:109 0:112 0:113 0:119 0:110 0:111	1 1 1 1 1 1 1 1 1	2:109 2:118 0:104 2:114 2:114 2:114 0:119 0:118 0:111	2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209)	2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209) 2:114 (7209)
	TOTAL	141	2:125	0:111							

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-3-6 (CONTINUED)

AIRCRAFT DELAYS DURING 1974
CATEGORIZED BY ROUTE SEGMENT, AIRLINES AND EQUIPMENT TYPE

SEGMENT STAGE LENGTH = 1000 MI. MILES	AIRCRAFT	BUSY (0700-2259)			DULL (2300-0600)			NOMINAL TIME (DATE)
		#FLIGHTS	Avg AIR TIME	#FLIGHTS	Avg AIR TIME	#FLIGHTS	Avg AIR TIME	
PA	R-727-100	4	2122	0108				2114 (7209)
	R-707-100A	17	2126	0112				2114 (7209)
	R-707-100C	5	2130	0116				2114 (7209)
	TOTAL	26	2126	0112				2114 (7209)
ROUTE SUMMARY		2773	2124	0110	203	2119	0105	

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE I - 3-7

AIRCRAFT DELAYS DURING 1974
CATALOGIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT: LAX => SFO STAGE LENGTH = 338 ST. MILES		-----BUSY (0700-2259)-----				-----DULL (2300-0659)-----				NOMINAL TIME (DATE)	
		AIRCRAFT		FLIGHTS		AVG AIR TIME		AVG AIR TIME		AVG AIR DELAY	
AIRLINE				TIME		DELAY		TIME		DELAY	
AA	AN9 R=707-100C	391	0151	0105							0146 (7204)
	TOTAL	391	0151	0105							
AN	AK4 NC=8-62	151	0153	0107							0146 (7204)
	TOTAL	151	0153	0107							
DL	808 NC=8-50 651 NC=R=61	2 261 263	0147 0146 0146	0101 -0100 -0100	9 125 134	0155 0149 0149		0155 0149 0149		0146 (7204)	0146 (7204)
	TOTAL	2 261 263	0147 0146 0146	0101 -0100 -0100	9 125 134	0155 0149 0149		0155 0149 0149		0146 (7204)	0146 (7204)
NW	816 R=747	88	0153	0107							0146 (7204)
	TOTAL	88	0153	0107							
PA	808 R=707-100H 609 R=707-500C A16 R=747	129 151 153 153	0152 0151 0152 0152	0106 0107 0106 0106	38	0153		0153		0146 (7204)	0146 (7204)
	TOTAL	129 151 153 153	0152 0151 0152 0152	0106 0107 0106 0106	38	0153		0153		0146 (7204)	0146 (7204)
SW	630 NC=9-10 640 NC=9-30	255 423 478	0152 0151 0151	0106 0107 0107						0146 (7204)	0146 (7204)
	TOTAL	255 423 478	0152 0151 0151	0106 0107 0107						0146 (7204)	0146 (7204)

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE I-3-7 (CONTINUED)

CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND FLIGHTTYPE

SEGMENT STAGE LENGTH ■ 33H 57M 41S (CONTINUED)	AIRCRAFT	BUSY (0700-2259)			DULL (2300-0659)			NOMINAL TIME (DATE)
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	
T4	710 R-727-100 711 R-727-100C/AC 715 H-727-200 760 I-101A-100H A02 H-707-100H A06 R-707-100H A08 R-707-100H A09 R-707-100C A16 R-747	69 16 130 175 0150 0152 24 0152 0152 0152 1730	0150 0149 0150 0150 0150 0152 0106 0152 0106 0152 0106	0104 0103 0104 0104 0104 0106 0106 0106 0106 0106 0104	72 2 226 11 203 11 203 79 1 594	0150 0147 0150 0150 0149 0150 0150 0150 0150 0150 0104	0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0104	(7204)
H4	620 R-737-200 710 R-727-100 711 R-727-100C/AC 715 R-727-200 730 NC-10-10 A16 R-747 A02 NC-B-20 A04 NC-B-10 A08 NC-B-50 A50 NC-B-50F A51 NC-B-61 A54 NC-B-62	894 1636 142 134 5 170 15 40 164 117 14 3544	0154 0151 0152 0151 0152 0154 0153 0154 0151 0152 0108 0152 0106 0152 0106	0108 0105 0105 0105 0106 0107 0108 0108 0105 0106 0108 0106 0106 0106 0106	17 11 11 11 11 17 11 11 5 4 39	0148 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146	0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146 0146	(7204)
TOTAL								
		620 H-737-200 715 H-727-200 730 NC-10-10 A09 R-707-100C H14 R-727-100H	749 537 1 39 134 1260	0152 0151 0149 0150 0151 0106	54 205 0104 54 171	0151 0148 0148 0148 0148 0146	0146 0146 0146 0146 0146 0146	(7204)
		TOTAL	3544	0106	39	0102	0102	(7204)

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-3-7 (CONTINUED)

AIRBORNE DELAYS DURING 1974
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT STAGE LENGTH a SEGMENT NO. (CONTINUED)	LAX AND SFO (CONTINUED)	ROUTE SEGMENT b (0700-2259) c				ROUTE SEGMENT d (2300-0659) e				NOMINAL TIME (DATE)
		AIRCRAFT	FLIGHTS	Avg AIR TIME	Avg AIR DELAY	FLIGHTS	Avg AIR TIME	Avg AIR DELAY		
ATLANTIC	HQ3A	0152	0106	1125	0:39	0103	0106	0:39		
ROUTE SUMMARY										

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I - 3-8

AIRLINE DELAYS DURING 1970
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT LENGTH = 145 ST. MILES

AIRLINE	AIRCRAFT	0700-07250			07250-0650			0650-0700		
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY
AA	710 R=727-100 715 R=727-200 710 NC-10-10	862	0130	0107	841	0131	0106	109	0134	0110
	TOTAL	1612	0133	0107						
DL	640 NC-9-30							211	0124	0102
	TOTAL							211	0124	0102
UA	550 I-11864-08/168C 640 NC-9-30 710 R=727-100 711 R=727-100C/QC 715 R=727-200	2766	0140	0105	5720	0134	0107	88	0135	0107
	TOTAL	8763	0136	0107	26	0133	0106	163	0135	0109
ROUTE SUMMARY		10575	0135	0107				211	0124	0102

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-3-9

AIRCRAFT DELAYS DURING 1974
CATEGORIZED BY HOUR, SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT NUMBER & ID# ST. STAFF LENGTH = 25A ST. MILES	AIRCRAFT	BUSY (0700-2259)			DULL (2300-0659)			NORMAL TIME (DATE)
		#FLIGHTS	AVG ACT TIME	AVG ACT DELAY	#FLIGHTS	AVG ACT TIME	AVG ACT DELAY	
AA	710 R=727-100	248	0:145	0:048	0:138	0:138 (7205)	0:048	0:138 (7205)
	715 R=727-200	110	0:144	0:048	0:138	0:138 (7205)	0:048	0:138 (7205)
	802 R=707-100K	652	0:145	0:048	0:138	0:138 (7205)	0:048	0:138 (7205)
	R08 R=707-100K	54	0:145	0:048	0:138	0:138 (7205)	0:048	0:138 (7205)
	R09 R=707-100C	57	0:146	0:048	0:138	0:138 (7205)	0:048	0:138 (7205)
	TOTAL	1110	0:145	0:048				
AL	640 NC=9-510	2455	0:145	0:048	157	0:136	0:043	0:138 (7205)
	710 R=727-100	110	0:142	0:048	0:101	0:101	0:048	0:101 (7205)
	715 R=727-200	292	0:140	0:048	0:104	0:104	0:048	0:104 (7205)
	R44 NC=R-510	2	0:146	0:048	0:104	0:104	0:048	0:104 (7205)
	R45 NC=8-510	2	0:143	0:048	0:104	0:104	0:048	0:104 (7205)
	TOTAL	2465	0:142	0:048	157	0:136	0:043	
AT	450 FH=227	2	1:111	0:104	1A	0:43	0:04	1:05 (7212)
	630 NC=9-510	170	0:144	0:048	1B	0:42	0:14	0:36 (7205)
	640 NC=9-510	78A	0:145	0:048	155	0:42	0:14	0:36 (7205)
	TOTAL	960	0:145	0:048	151	0:42	0:14	
	800A	0:143	0:055	0:048	0:39	0:39	0:00	
	TOTAL SUMMARY							

-- ALL TIMES ARE IN HOURS AND MINUTES --

TABLE I-3-10

AIRCRAFT DELAYS DURING 1974
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT START LENGTH = STA. W/TES	AIRCRAFT	RISY (0700-2259)				DULI (2300-0659)				NOMINAL TIME (DATE)
		#FLIGHTS	Avg AIR TIME	Avg AIR TIME	%DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR TIME	%DELAY	
PA	R=707-1000	2	1:31	0:00						1:24 (7206)
	R=707	96	1:26	0:03						1:24 (7206)
	TOTAL	98	1:26	0:03						
PA	R=737-200	1	1:37	0:13						1:24 (7206)
	R=727-100	671	1:51	0:07						1:24 (7206)
	R=727-100C/3C	369	1:51	0:04						1:24 (7206)
	R=727-200	13	1:29	0:05						1:24 (7206)
	R=730	1150	1:29	0:12						1:24 (7206)
	NC=0-10	1	1:16	0:12						1:24 (7206)
	R=747	1	1:26	0:02						1:24 (7206)
	DC=0-20	249	1:31	0:08						1:24 (7206)
	DC=0-50	7	1:37	0:14						1:24 (7206)
	KA	89	1:32	0:09						1:24 (7206)
	DC=0-50	192	1:35	0:07						1:24 (7206)
	AS1	17	1:29	0:05						1:24 (7206)
	AS4	1812	1:31	0:08						
	TOTAL	1812	1:31	0:08						
PA	R=737-200	621	1:33	0:10						1:24 (7206)
	R=727-200	284	1:26	0:04						1:24 (7206)
	R=707-1000C	2	1:27	0:03						1:24 (7206)
	R=720-000H	147	1:31	0:07						1:24 (7206)
	TOTAL	1056	1:31	0:08						1:24 (7206)
	ROUTE SUMMARY	2065	1:31	0:07						1:26 0:02

ALL TIMES ARE IN HOURS AND MINUTES--

TABLE I-4-1

AIRBORNE DELAYS DURING 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT ATL => NFM SEG LENGTH = 731 ST. MILES	AIRCRAFT	0700-2250				2300-0659				NOMINAL TIME (DAFF)
		SEGMENTS	Avg AIR TIME	Avg AIR DELAY	FLIGHTS	Avg AIR TIME	Avg AIR DELAY			
DL	640 NC=9-10 715 R=727-200 740 L=1011 840 R=747 848 NC=R-50 851 NC=8-61	2	1138	0.03	1	155	1154	-0.00	1135 (7404)	
		420	1134	0.04	146	1140	0.06	1135 (7404)		
		315	1142	0.04				1135 (7404)		
		008	1143	0.04	2	1140	0.06	1135 (7404)		
		150	1142	0.04				1135 (7404)		
	TOTAL	2376	1141	0.07	263	1137	0.03			
PA	640 NC=9-10 640 NC=9-10 710 R=727-100 711 R=727-100C/AC 715 R=727-200	1	1138	0.03				1135 (7404)		
		1068	1148	0.13				1135 (7404)		
		710	1145	0.10	145	0.10		1135 (7404)		
		73	1141	0.07	3	1145	0.11	1135 (7404)		
	TOTAL	1355	1147	0.12				1135 (7404)		
ROUTE SUMMARY		1550	1140	0.09	263	1137	0.03			

ALL TIME & AVG IN HOURS AND MINUTES

TABLE I-4-2

CATALOGIZED BY ROUTE SEGMENT, DURING 1975
ABANDONED AIR ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT	RDG # > PHL	SEGMENT LENGTH = 281 MI.	BUSY (0700-2259)				DULL (2300-0659)				NON-TIME (DATE)
			AIRCRAFT	# FLIGHTS	Avg AIR TIME	Avg AIR	# FLIGHTS	Avg AIR TIME	Avg AIR	Non-TIME	
A.A.	R-727-100			1	1:02	0:20				0:142 (7210)	
	710 H-227-200			7	0:52	0:19				0:142 (7210)	
	715 R-707-100R			179	0:56	0:13				0:142 (7210)	
	802 R-707-100R			33	0:51	0:09				0:142 (7210)	
	804 R-707-100R			74	0:54	0:17				0:142 (7210)	
	809 R-707-100C										
	TOTAL			296	0:55	0:13					
A.L.	C4-580			2	1:14	0:09				1:124 (7204)	
	605 R-111-200			317	1:02	0:19				0:142 (7210)	
	640 NC-9-50			2841	0:55	0:13				0:142 (7210)	
	650 M13CFU LANING			52	0:57	0:15				0:142 (7210)	
	TOTAL			3212	0:54	0:13					
D.L.	NC-9-30			670	0:54	0:13				0:142 (7210)	
	680 R-727-100			190	0:52	0:10				0:142 (7210)	
	710 R-727-200			331	0:54	0:12				0:142 (7210)	
	715 R-727-200			207	0:55	0:12				0:142 (7210)	
	804 NC-8-50			1	0:52	0:10				0:142 (7210)	
	851 NC-8-61										
	TOTAL			2017	0:54	0:12					
F.A.	R-727-100									0:142 (7210)	
	710 R-727-100C			206	0:56	0:10				0:142 (7210)	
	711 R-727-100C			123	0:54	0:11				0:142 (7210)	
	715 R-727-200			0	0:53	0:11				0:142 (7210)	
	TOTAL			338	0:55	0:13					
T.M.	R-707-100C									0:142 (7210)	
	609 R-707-100C									0:142 (7210)	

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-4-2 (CONTINUED)

CATALOGUE OF AIRPORT DELAYS DURING 1975
BY COUNTRY AND SECURTY AREA AND ROUTE TYPE

SEGMENT: BOS > PHL (CONTINUOUS)		ROUTE: BOS-PHL (0700-2200)				ROUTE: BOS-PHL (2300-0600)			
STAGE LENGTH = 201 ST. MILES	AIRCRAFT	# FLIGHTS	Avg AIR TIME	Avg AIR RELAY	# FLIGHTS	Avg AIR TIME	Avg AIR RELAY	MINIMAL TIME (DATE)	
YR (CONT)	TOTAL								
	ROUTE SUMMARY	5863	01:54	01:11	146	01:52	01:10		

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I - 4 - 3

AIRBORNE DELAYS DURING 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT [CLF 882 DTW STAGE LENGTH = 95 ST. MILFS]		BUSY (0700-2259)				DULL (2300-0650)				NORMAL TIME (DATE)	
ATPLINE	AIRCRAFT	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	
AL	640 NC=9-3n	30	0123	0105							0118 (7202)
	TOTAL		0123	0105							
DL	640 NC=9-3n	360	0121	0103							0118 (7202)
	TOTAL		0121	0103							
FA	630 NC=9-1n 640 NC=9-3n	20 140	0124 0124	0106 0106							0118 (7202) 0118 (7202)
	TOTAL		0124	0106							
NC	430 RV=540 640 NC=9-3n	2084 715	0128 0124	0104 0106							0124 (7202) 0118 (7202)
	TOTAL		0127	0104							
NW	715 R=727-200 710 R=727-100 715 R=727-200	5 76 217	0127 0124 0124	0109 0107 0107							0118 (7202) 0118 (7202) 0118 (7202)
	TOTAL		0124	0107							
UA	850 NC=R-500	161	0123	0105							0118 (7202)
	TOTAL		0123	0105							

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-4-3 (CONTINUED)

PATERSONIAN BY BRUCE SCHAFFNER, AIR INF AND EQUIPMENT TYPE
PATERSONIAN BY BRUCE SCHAFFNER, AIR INF AND EQUIPMENT TYPE

AIRCRAFT	ATL T/H	MIL HRS (0700-2259)	FLIGHTS	AVG T/LR	AVG ATD	DELAYS	AVG ATD TIME	AVG DELAY	NUMBER OF FLIGHTS	NUMBER OF DELAYS	NIGHTTIME (DATA)
ATL T/H	5344	0126	0:04				457	0:24	5344	0:06	0:00

SOCIAL TIMES AND WORKS AND MINUTE SONG

TABLE I - 4 - 4

CATEGORIZED BY ROUTE SEGMENT, DURING 1975
ATLANTIC DELAYS DURING 1975

SEGMENT LENGTH & AIRLINES	AIRCRAFT	BUSY (0700-0659)				NOMINAL TIME (DATE)
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	Avg ATD TIME	
AA	710 R-727-100 715 R-727-200	1924 1125 TOTAL	1143 1141 1142	0121 0119 0120	0121 0119 0120	1122 (7207) 1122 (7207)
TW	710 R-727-100 711 R-727-100C/QC 715 R-727-200	453 131 1416 TOTAL	1139 1154 1140 1140	0117 0116 0116 0116	0117 0116 0116 0116	1122 (7207) 1122 (7207) 1122 (7207)
UA	620 R-737-200 710 R-727-100 711 R-727-100C/QC 715 R-727-200	361 761 133 1591 TOTAL	1141 1130 1135 1142 1141	0121 0117 0113 0120 0119	0121 0117 0113 0120 0119	1122 (7207) 1122 (7207) 1122 (7207) 1122 (7207)
ROUTE SUMMARY		8084	1141	0119		

ALL TIMES ARE IN HOURS AND MINUTES--

TABLE I-4-5

AIRBORNE DELAYS DURING 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT DEPARTURE STATION & ARRIVAL STATION	AIRCRAFT	0700-2259			2300-0659			NOMINAL TIME (DATE)
		# FLIGHTS	Avg AIR TIME	Avg AIR DELAY	# FLIGHTS	Avg AIR TIME	Avg AIR DELAY	
CO	715 R-727-200 730 NC-8-10 814 R-720-100R	541	1:53	0:11	9	1:47	0:06	1:41 (7212)
		749	1:51	0:10	1	1:44	0:05	1:41 (7212)
	5	2121	0:39					1:41 (7212)
	TOTAL	1337	1:52	0:11	10	1:47	0:05	
TY	710 R-727-100 711 R-727-100C/QC 715 R-727-200 802 R-707-100H 806 R-707-100 808 R-707-100R 809 R-707-100C	478	1:56	0:15	0:115	1:56	0:15	1:41 (7212)
		735	1:56	0:15	0:115	1:56	0:15	1:41 (7212)
	308	1:55	0:13		0:113	1:55	0:13	1:41 (7212)
	674	1:51	0:10		0:110	1:51	0:10	1:41 (7212)
	57	1:52	0:11		0:111	1:52	0:11	1:41 (7212)
	133	1:53	0:12		0:112	1:53	0:12	1:41 (7212)
	5	1:46	0:05		0:05	1:46	0:05	1:41 (7212)
	TOTAL	1674	1:54	0:13	0:113	1:54	0:13	
TA	620 R-737-200 710 H-727-100 711 R-727-100C/QC 715 R-727-200 730 NC-8-10 816 R-747 802 NC-8-20 808 NC-8-50 850 NC-8-50R 851 NC-8-61 854 NC-8-62	45	2:03	0:21	0:121	2:03	0:21	1:41 (7212)
		341	1:58	0:17	0:117	1:58	0:17	1:41 (7212)
	67	1:59	0:18		0:118	1:59	0:18	1:41 (7212)
	42	1:52	0:11		0:111	1:52	0:11	1:41 (7212)
	664	1:55	0:14		0:114	1:55	0:14	1:41 (7212)
	2	1:42	0:01		0:01	1:42	0:01	1:41 (7212)
	157	1:54	0:13		0:113	1:54	0:13	1:41 (7212)
	60	1:53	0:11		0:111	1:53	0:11	1:41 (7212)
	84	1:49	0:08		0:08	1:49	0:08	1:41 (7212)
	327	1:50	0:13		0:113	1:50	0:13	1:41 (7212)
	14	1:55	0:14		0:114	1:55	0:14	1:41 (7212)
	TOTAL	2205	1:55	0:14	0:113	1:54	0:14	
TR	SP1A	1:54	0:13		10	1:47	0:05	

AIRCRAFT SUMMARY

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-4-6

AIRCRAFT DELAYS DURING 1975
CATALOGIZED BY ROUTE SEGMENT, AIRLINE AND FIGHTER TYPE

SEGMENT JFK => MIL STAFF LENGTH = 1000 ST. MILES	AIRCRAFT	ROUTINE (0700-2259)				NONROUTINE (2300-0659)				NOMINAL TIME (DATE)
		# FLIGHTS	Avg AIR TIME	Avg AIR DELAY	# FLIGHTS	Avg AIR TIME	Avg AIR DELAY			
RN	AUA NC-R-57 854 NC-R-62	47 208	2127 2129	0:110 0:116	0:110 0:116	2114 2114	2114 2114	(7209) (7209)	2114 (7209)	
	TOTAL	255	2129	0:115						
NI	640 NC-Q-110 715 R-727-200 760 I-1011 A16 R-747 AUA NC-R-57	2 245 5 2 167	2132 2121 2115 2134 2122	0:118 0:108 0:102 0:121 0:108	0:110 0:110 0:110 0:110 0:108	2114 2114 2114 2114 2114	2114 2114 2114 2114 2114	(7209) (7209) (7209) (7209) (7209)	2114 (7209)	
	TOTAL	1421	2122	0:108						
FA	640 NC-Q-110 710 R-727-100 711 R-727-000C/QC 715 R-727-200 760 I-1011	18 176 194 351 549	2135 2126 2128 2122 2123	0:21 0:113 0:114 0:08 0:109	0:21 0:113 0:114 0:08 0:109	2114 2114 2114 2114 2114	2114 2114 2114 2114 2114	(7209) (7209) (7209) (7209) (7209)	2114 (7209)	
	TOTAL	1468	2124	0:111						
NA	710 R-727-100 715 R-727-200 730 NC-R-610 732 NC-100-10 A16 R-747 A51 NC-R-621	124 96 121 5 95 2 443	2118 2126 2123 0:110 2124 2123 2122	0:109 0:113 0:110 0:111 0:110 0:116 0:109	2117 2117 2117 2 2117 2117 2117	2114 2114 2114 2114 2114 2114 2114	0:109 0:113 0:113 0:115 0:110 2114 0:113	(7209) (7209) (7209) (7209) (7209) (7209) (7209)	2114 (7209)	
	TOTAL	1	2123	0:109	15	2:25	0:112	2114 (7209)	2114 (7209)	

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-4-6 (CONTINUED)

AIRCRAFT FLIGHTS DURING 1974
COMBINED BY FLIGHT SEGMENT, AIRTIME AND DELAY TYPE

SPECIFIC STAGE LENGTH & TOTAL SE. HRS	AIRCRAFT	DIAL (2300-050)				TOTAL TIME (DALE)
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	Avg AIR DELAY	
PA (CONT)	AIR R-747	30	2:22	0:08		2:24 (7204)
	TOTAL	41	2:22	0:08	0:05	0:12
	BRIEF SUMMARY	2038	2:24	0:10	2:14	0:05

ALL TIMES ARE IN MINUTES AND MINUTES-----

TABLE I - 4 - 7

AIRBORNE DELAYS DURING 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT LENGTH = 537 MI. MILES		BUSY (0700-2259)				DULL (2300-0659)				NOMINAL TIME (DATE)	
AIRLINE	AIRCRAFT	#FLIGHTS	Avg AIR TIME	#FLIGHTS	Avg AIR TIME	#FLIGHTS	Avg AIR TIME	#FLIGHTS	Avg AIR TIME	DELAY	
AA	808 A-707-100A 809 B-707-100C	1 297	0147 0151	0101 0105	66	1103	0117	0146 (7204)	0146 (7204)		
	TOTAL	298	0151	0105	66	1103	0117				
AN	848 NC-B-50 854 NC-B-62	144	0153	0107	12	0149	0113	0146 (7204)	0146 (7204)		
	TOTAL	144	0153	0107	13	0149	0103				
DL	848 DC-B-50 851 DC-B-61	154	0143 0151	-0103 0105	60	0150	0104	0146 (7204)	0146 (7204)		
	TOTAL	359	0151	0105	60	0150	0104				
NH	710 A-727-100 715 A-727-200 733 DC10-40 A16 A-747	1 1 1 330	0153 0155 0151 0153	0107 0109 0105 0107	333	0153	0107	0146 (7204)	0146 (7204)		
	TOTAL	333	0153	0107							
PA	808 A-707-100A 809 A-707-100C 816 A-747	193 58 702	0153 0155 0153	0107 0109 0107	70	0152	0105	0146 (7204)	0146 (7204)		
	TOTAL	553	0153	0107	70	0152	0105				
RW	630 NC-B-10	515	0153	0107				0146 (7204)			

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-4-7 (CONTINUED)

AIRBORNE DELAYS DURING 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT LENGTH = 337 ST. MILES	AIRCRAFT	BUSY (0700-2259)			FULL (2300-0659)			NOMINAL TIME (NATF)
		#FLIGHTS	AVG AIR TIME	AVG AIR DELAY	#FLIGHTS	AVG AIR TIME	AVG AIR DELAY	
BAW (CRAZY)	640 NC-B-3n	651	0154	0108				0146 (7204)
	TOTAL	116h	0154	0108				
TAH	A-727-100	2h	0150	0104	1	0150	0104	0146 (7204)
	A-727-100C/QC	11	0150	0104	1	0152	0106	0146 (7204)
	A-727-200	2	0148	0107	113	0151	0105	0146 (7204)
	I-1011	213	0149	0115	1	0149	0103	0146 (7204)
	A-707-100R	74h	0152	0106	31	0150	0104	0146 (7204)
	A-707-100	75	0152	0106	19	0152	0106	0146 (7204)
	A-707-300	24h	0153	0107	192	0153	0104	0146 (7204)
	A-707-300A	25h	0152	0106	19	0151	0105	0146 (7204)
	A-707-300C	213	0153	0107	1	0151	0146	0146 (7204)
	R-747							
	TOTAL	178h	0152	0106	577	0151	0105	
TAI	A-737-200	Abh	0150	0108				0146 (7204)
	A-727-100	26h	0152	0105				0146 (7204)
	A-727-200	332	0152	0106				0146 (7204)
	Re-727-200	6h	0152	0106				0146 (7204)
	NC-10-10	10	0149	0113				0146 (7204)
	730	A	0153	0107	1	0150	0104	0146 (7204)
	A-747	275	0152	0106	1	0152	0110	0146 (7204)
	NC-8-20	13h	0151	0105				0146 (7204)
	842	1A1	0153	0107	56	0152	0106	0146 (7204)
	NC-8-50	51h	0153	0107	1	0151	0105	0146 (7204)
	850	61	0151	0105				
	NC-8-50F							
	851							
	NC-8-61							
	858							
	NC-8-67							
	TOTAL	4407	0152	0106	59	0152	0106	
TAI	A-737-200	1057	0151	0107	1	0152	0106	0146 (7204)
	A-727-200	751	0150	0106	713	0149	0103	0146 (7204)
	NC-10-10	1	0152	0106				0146 (7204)

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE I-4-7 (CONTINUED)

CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE
 AERONAUTICAL DELAYS DURING 1975
 STAGE LENGTH = 317 ST. MILES

SEGMENT	MAX. SFL (SFL CONTINUOUS)	STAGE LENGTH	AIRCRAFT	HUSY (0700-2259)			DUL (2300-0659)			NOMINAL TIME (DATE)
				NFLIGHTS	Avg AIR TIME	Avg AIR TIME	NFLIGHTS	Avg AIR TIME	Avg AIR TIME	
MA (CONT)	Rng R-707-100C			145	0151	0107	1	0148	0102	0146 (7204)
B19 R-720-600R				691	0151	0105				0146 (7204)
TOTAL				2640	0152	0106	715	0149	0105	
ROUTE SUMMARY				12595	0152	0106	1340	0150	0104	

--- ALL TIMES ARE IN HOURS AND MINUTES ---

TABLE I-4-8

CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE
AIRCRAFT DELAYS DURING 1975

SEGMENT IGA → AND
SEGMENT LENGTH = 1AS ST. MILES

AIRLINE	AIRCRAFT	BUSY (0700-2259)			DULL (2300-0659)			NOMINAL TIME (DATE)
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	
AA	710 R=727+100 715 R=727+100 730 NC=10+10	1071 545 142	0134 0135 0134	0108 0108 0107	1000	0134	0108	0126 (7212) 0126 (7212) 0126 (7212)
	TOTAL							
AL	640 NC=0+30 715 R=727+200	57 244	0134 0134	0110 0107	301	0134	0108	0126 (7212) 0126 (7212)
	TOTAL							
EA	550 L=1800-09/1ARC 640 DC=0+50 710 R=727+100 711 R=727+10NC/QC 715 R=727+200 760 L=1011	1099 4956 67 43 101 22	0141 0134 0135 0135 0136 0136	0105 0108 0109 0110 0110 0110	6288	0137	0107	0135 (7201) 0126 (7212) 0126 (7212) 0126 (7212) 0126 (7212) 0126 (7212)
	TOTAL							
TA	630 NC=0+10 710 R=727+100	142 1	0134 0134	0108 0108	143	0134	0108	0126 (7212) 0126 (7212)
	TOTAL							
	ROUTE SUMMARY	10532	0136	0107				

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE I - 4 - 9

CATEGORIZED BY AIRLINE SEGMENT, AIRLINE AND EQUIPMENT TYPE
AIRCRAFT DELAYS DURING 1975

SEGMENT FROM 220 TO ATL STAGE LENGTH = 250 MI. WLS	AIRCRAFT	0700-2259			2300-0659			NORMAL TIME (DATE)
		#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	#FLIGHTS	Avg AIR TIME	Avg AIR DELAY	
								013A (7205)
AA	R-727-100	207	0:145	0:107	0:107	0:104	0:104	013A (7205)
	R-727-200	105	0:146	0:108	105	0:146	0:108	013A (7205)
	730 NC-100-100	1	0:140	0:01	1	0:140	0:01	013A (7205)
	R-707-1000	241	0:145	0:06	241	0:145	0:06	013A (7205)
	R-707-2000	33	0:144	0:05	33	0:144	0:05	013A (7205)
	R-707-3000C	45	0:144	0:07	45	0:144	0:07	013A (7205)
	TOTAL	832	0:145	0:107				
								013B (7205)
AL	640 NC-6-30	2450	0:145	0:07	2450	0:145	0:07	013B (7205)
	R-727-100	1	0:149	0:00	1	0:149	0:00	013B (7205)
	R-727-200	121	0:144	0:104	121	0:144	0:104	013B (7205)
	715 NC-6-50	60	0:144	0:107	60	0:144	0:107	013B (7205)
	TOTAL	3232	0:145	0:107				
								1105 (7212)
DL	450 FH-227	1131	0:125	7	0:144	0:06	0:144	013B (7205)
	630 NC-9-0	298	0:147	0:104	298	0:147	0:104	013B (7205)
	640 NC-9-30	1635	0:147	0:104	1635	0:147	0:104	013B (7205)
	TOTAL	1934	0:147	0:104				
								0107
	MINUTE SUMMARY							
		5998	0:144	0:107	43	0:145	0:107	

--- ALL TIMES ARE IN HOURS AND MINUTES ---

TABLE I-4-10

AIRBORNE DELAYS DURING 1975
CATCRAFT BY ROUTE SEGMENT, AIRTRAF AND EQUIPMENT TYPE

SEGMENT	ROUTE	AIRCRAFT	AIRBORNE DELAYS (0700-0200)				NOMINAL TIME (DATE)			
			SEGMENTS	AVG ADR TIME	AVG AIR TIME	NFLY	SEGMENTS	AVG ADR TIME	AVG AIR TIME	DELAY
PA	600 R=707-100R	65	1155	0111				1124 (7206)		
	R16 R=747	117A	1124	0104				1124 (7206)		
	TOTAL	243	1150	0106				1124 (7206)		
UA	620 R=737-200	5	1130	0116				1124 (7206)		
	710 R=727-100	1361	1110	0107				1124 (7206)		
	R=727-100C/AC	609	1132	0108				1124 (7206)		
	715 R=727-200	A3	1131	0108				1124 (7206)		
	NC=10-10	79	1126	0102				1124 (7206)		
	802 NC-B-20	196	1132	0104				1124 (7206)		
	806 NC-B-50	175	1131	0104				1124 (7206)		
	850 NC-A-50F	23	1133	0108				1124 (7206)		
	851 NC-B-61	19	1131	0106				1124 (7206)		
	854 NC-B-62	2	1129	0105				1124 (7206)		
	TOTAL	2552	1131	0107				1124 (7206)		
								1124 (7206)		
WA	620 R=737-200	1173	1130	0111				1124 (7206)		
	715 R=727-200	604	1128	0105				1124 (7206)		
	R=720-0006	59	1131	0107				1124 (7206)		
	TOTAL	1836	1132	0108				1124 (7206)		
	AIRTRAF SUMMARY	4631	1131	0108				1124 (7206)		

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE I-5-1

ATRILINE DELAYS DURING 1974 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT ATL \rightarrow DFW STAGE LENGTH = 731 ST. MILES	ATRILINE	1974			1975			TOTAL #FLIGHTS	CHARGE IN #FLIGHTS	TOTAL CHG. AVG AIR DELAY	NOMINAL TIME (NATF)
		#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY						
DL											
640 DC-9-30	5	0:111	1:37	~0:100	1:42						
710 B-727-100	1	0:106	1:46	0:106	0:48						
715 B-727-200	302	0:101	620	0:104	0:62						
L-1011	542	0:111	610	0:105	0:76						
760	542	0:104	615	0:105	0:64						
A16 R-747	542	0:104	615	0:105	0:64						
ADM DC-8-50	785	0:106	910	0:105	1:05						
AS1 DC-8-61	145	0:111	350	0:108	504						
TOTAL	2141	0:107	2487	0:106	4628						
EA											
630 DC-9-10	118	0:108	1:19	0:103	1:19						
640 DC-9-30	197	0:113	1064	0:113	1465						
710 B-727-100	241	0:106	210	0:110	451						
711 B-727-100C/NC	155	0:104	73	0:107	228						
715 B-727-200	155	0:104	5	0:111	158						
TOTAL	1066	0:108	1355	0:112	2421						
ATRILINE SUMMARY											
	3207	0:107	3842	0:108	7049						
					0:101						

----- ALL TIMES ARE IN HOURS AND MINUTES -----

TABLE I - 5-2

AIRBORNE DELAYS DURING 1970 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT AND STAGE LENGTH	PHL	SEGMENT AND STAGE LENGTH	PHL	1970			1975			TOTAL		
				AIRCRAFT	AIRLINE	AIRCRAFT	AIRLINE	AIRCRAFT	AIRLINE	AIRCRAFT	AIRLINE	AIRCRAFT
AA		710 R=727-100		710 R=727-100		75 0110		7 0120		2 0102		0142 (7210)
		715 R=727-200		715 R=727-200		121 0112		7 0110		82 0102		0142 (7210)
		730 DC-10-10		730 DC-10-10		130 0112		179 0113		121 0100		0142 (7210)
		802 R=707-100R		802 R=707-100R		52 0113		33 0109		309 0102		0142 (7210)
		808 R=707-300R		808 R=707-300R		70 0113		76 0112		65 0102		0142 (7210)
		809 R=707-300C		809 R=707-300C		479 0113		296 0113		146 0101		0142 (7210)
		TOTAL		TOTAL		296 0113		296 0113		725 0100		
AL		430 CV-560		23 *0109		23 *0109		2 *0109		25 0100		1124 (7204)
		605 A=1-11-700		142A 0117		142A 0117		317 0119		2145 0102		0142 (7210)
		640 DC-9-30		2461 0114		2461 0114		2462 0113		5103 0101		0142 (7210)
		650 MCDALE LANTRUM		54		54		54 0115		54 0101		0142 (7210)
		TOTAL		4092 0115		3235 0115		6313 0115		7127 0102		
DL		640 DC-9-30		802 0115		670 0115		670 0113		1581 0101		0142 (7210)
		710 R=727-100		1064 0112		199 0112		0110 0110		199 0102		0142 (7210)
		715 R=727-200		1064 0112		931 0112		0112 0112		995 0100		0142 (7210)
		804 DC-9-40		804 0111		207 0111		0112 0112		207 0102		0142 (7210)
		851 DC-9-41		1036 0113		1 0110		1 0110		1 0101		0142 (7210)
		TOTAL		2017 0113		2017 0113		3983 0101				
EA		710 R=727-100		104 0115		206 0115		0114 0101		310 0101		0142 (7210)
		711 R=727-100C		61 0114		123 0114		0111 0103		184 0103		0142 (7210)
		715 R=727-200		14 0113		9 0113		0111 0102		23 0102		0142 (7210)
		TOTAL		179 0114		338 0114		517 0102				
PA		AOB R=707-100R		101 0117		101 0117		101 0101		101 0101		0142 (7210)
		AO9 R=707-300C		41 0116		41 0116		41 0102		41 0102		0142 (7210)
		TOTAL		142 0117		142 0117		142 0102		142 0102		0142 (7210)
		TA										
		AO9 R=707-300C										

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I - 5 - 2 (CONTINUED)

AIRPORT DELAYS DURING 1974 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT AOS => PHL (CONTINUED) STAGE LENGTH = 280 ST. MILES	AIRLINE	AIRCRAFT	1974			1975			TOTAL #FLIGHTS	CHARGE IN AVG AIR DELAY	NOMINAL TIME (DAFF)
			#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY					
		TOTAL			123		0:110		123		
		ROUTE SUMMARY	6808	0:115	6809	0:113		12817		0:02	

ALL TIMES ARE IN HOURS AND MINUTES-----

TABLE I-5-3
AIRBORNE DELAYS DURING 1970 AND 1974,
CATEGORIZED BY RROUTF SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT CLF & > DTW STAFF LENGTH & AIRCRAFT	AIRCRAFT	1974			1975			TOTAL #FLIGHTS	CHANGE IN AVG AIR DELAY	TOTAL #FLIGHTS	NOMINAL TIME (DTMF)
		#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY				
AL	605 R=11-200 606 R=9-10 TOTAL	26	0:08	30	0:05	26	0:04	0:18	0:02	0:18	0:18 (7202)
DL	606 R=9-10 TOTAL	26	0:08	30	0:05	56	0:02	0:18	0:02	0:18	0:18 (7202)
EA	630 DC=9-10 640 DC=9-30 710 R=727-100 711 R=727-100C/AC TOTAL	34	0:07	360	0:03	697	0:01	0:18	0:02	0:18	0:18 (7202)
NC	430 CV=5A0 606 DC=9-30 TOTAL	42	0:07	160	0:06	202	-0:01	0:18	0:02	0:18	0:18 (7202)
UA	710 R=727-100 715 R=727-200 710 R=727-100 715 R=727-200 TOTAL	1409	0:04	2064	0:04	3493	0:00	0:18	0:09	0:18	0:18 (7202)
UR	162 TOTAL	542	0:06	715	0:06	1257	0:00	0:18	0:02	0:18	0:18 (7202)
UR	162 TOTAL	1951	0:04	2799	0:04	4750	0:00	0:18	0:02	0:18	0:18 (7202)
UR	162 TOTAL	299	0:06	3	0:09	299	0:00	0:18	0:02	0:18	0:18 (7202)
UR	162 TOTAL	121	0:06	76	0:07	124	0:03	0:18	0:02	0:18	0:18 (7202)
UR	162 TOTAL	217	0:07	217	0:07	217	0:00	0:18	0:02	0:18	0:18 (7202)
UR	162 TOTAL	420	0:06	296	0:07	716	0:01	0:18	0:02	0:18	0:18 (7202)
UR	162 TOTAL	161	0:05	161	0:05	323	0:00	0:18	0:02	0:18	0:18 (7202)
UR	162 TOTAL	161	0:05	161	0:05	323	0:00	0:18	0:02	0:18	0:18 (7202)
UR	162 TOTAL	3806	0:05	3806	0:05	6744	0:00	0:18	0:02	0:18	0:18 (7202)
ROUTINE SUMMARY											

-----ALL TIMES ARE IN HOURS AND MINUTES-----

TABLE I - 5 - 4

AIRLINE DELAYS DURING 1974 AND 1975
CATERORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT NO & DIST. SEGMENT LENGTH = 612 MI.	AIRCRAFT	1974		1975		TOTAL #FLIGHTS	#FLIGHTS AVG AIR DELAY	TOTAL CHANGE IN AVG AIR DELAY	NOMINAL TIME (DATE)
		#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY				
AA	710 R=727-100 715 R=727-200	2005	0:23	1924	0:21	3929	-0:02	1122 (7207)	
	TOTAL	1039	0:21	1125	0:19	2164	-0:02	1122 (7207)	
		3044	0:22	3049	0:20	6093	-0:02		
TA	710 R=727-100C 711 R=727-100C/QC 715 R=727-200	344	0:17	433	0:17	777	0:01	1122 (7207)	
	TOTAL	105	0:17	131	0:16	236	0:01	1122 (7207)	
		974	0:23	1616	0:18	2792	-0:05	1122 (7207)	
		1423	0:21	2382	0:18	3605	-0:03		
UJA	620 R=737-200 710 R=727-100 711 R=727-100C/QC 715 R=727-200	213	0:22	368	0:21	581	-0:01	1122 (7207)	
	TOTAL	422	0:25	761	0:17	1183	-0:08	1122 (7207)	
		162	0:19	133	0:13	295	-0:07	1122 (7207)	
		987	0:23	1391	0:20	2518	-0:13	1122 (7207)	
		1784	0:23	2653	0:19	4457	-0:04		
ROUTE SUMMARY		6251	0:22	8084	0:19	14335	-0:03		

ALL TIMES ARE IN MINUTES AND MINUTES

TABLE I-5-5
AVERAGE DELAYS DURING 1974 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT DEN & STAGE LENGTH ■ 900 ST. MILES	AIRCRAFT	1974			1975			TOTAL FLIGHTS	CHANGE IN DELAY	AVERAGE AIR DELAY	TOTAL CHANGES IN NORMAL TIME (DATE)
		#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY						
CD	715 A-727-200 730 DC-10-10 R14 B-720-300R	726	0:114	552	0:11	1260	-0:02	1:41 (7/21/2)	1:41 (7/21/2)	1:41 (7/21/2)	1:41 (7/21/2)
	TOTAL	26	0:114	5	0:30	31	0:26				
TR	710 B-727-100 711 B-727-100C/90C 715 B-727-200 R02 A-707-300R R06 A-707-300 R09 A-707-300R R25 CV-860	150	0:114	678	0:115	632	0:01	1:41 (7/21/2)	1:41 (7/21/2)	1:41 (7/21/2)	1:41 (7/21/2)
	TOTAL	400	0:119	308	0:113	708	-0:06				
UA	620 B-737-200 710 B-727-100 711 B-727-100C/90C 715 B-727-200 730 DC-10-10 A1A A-747 A22 DC-8-20 A66 DC-8-30 A84 DC-8-50 A50 DC-8-80F A51 DC-A-311 A54 DC-A-322	5	0:127	45	0:121	50	-0:06	1:41 (7/21/2)	1:41 (7/21/2)	1:41 (7/21/2)	1:41 (7/21/2)
	TOTAL	346	0:116	441	0:117	787	0:00				
		41	0:114	67	0:114	108	0:04				
		39	0:113	42	0:111	81	-0:02				
		590	0:119	960	0:114	1550	-0:05				
		27	0:119	2	0:101	29	0:18				
		74	0:115	157	0:113	235	-0:02				
		11	0:120	1	0:111	1	0:00				
		56	0:114	60	0:111	96	-0:02				
		174	0:117	127	0:108	86	0:01				
		34	0:109	14	0:114	48	0:05				
	TOTAL	1381	0:117	2205	0:114	3588	-0:03				
	ROUTE SUMMARY	4093	0:115	5226	0:115	9319	-0:02				

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I-5-6

AIRLINE DELAYS DURING 1974 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT JFK => MIA
STAGE LENGTH = 1090 ST. MILES

SEGMENT	JFK =>	MIA	1974			1975			TOTAL #FLIGHTS	#FLIGHTS AVG AIR DELAY	TOTAL #FLIGHTS	#FLIGHTS AVG AIR DELAY	TOTAL #FLIGHTS	#FLIGHTS AVG AIR DELAY	NOMINAL TIME (DATE)
			AIRLINE	AIRCRAFT	#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY							
BH	R48	DC-8-50	14	0:18	47	0:14	63	0:05	2114 (7209)						
	AS4	DC-8-62	281	0:15	208	0:16	489	0:00							
	TOTAL		297	0:16	255	0:15	552	0:00							
DL	640	DC-8-30	415	0:03	245	0:08	7	?							
	715	R-727-200	106	0:17	106	0:12	660	0:05							
	730	DC-10-10	1	0:44	5	0:02	106								
	760	L-1011			2	0:21	2								
	A16	R-747	156	0:11	367	0:08	523	-0:03							
	R48	DC-8-50	5	0:25			5								
	651	DC-8-61			685	0:07	621	0:08							
	TOTAL				685	0:07	621	0:08	1306	0:01					
E4	640	DC-8-30	15	0:26	18	0:21	33	-0:05							
	710	R-727-100	184	0:12	376	0:13	560	0:01							
	711	R-727-100C/AC	450	0:09	194	0:14	644	0:05							
	715	R-727-200	290	0:11	351	0:08	649	-0:03							
	760	L-1011	485	0:09	540	0:09	1034	-0:00							
	TOTAL				1432	0:10	1488	0:11	2920	0:00					
NA	710	R-727-100	8	0:06	126	0:04	134								
	715	R-727-200	200	0:05	331	0:06	533								
	730	DC-10-10	87	0:08	121	0:10	208	0:01							
	732	DC-10-30	51	0:09	7	0:08	58	-0:01							
	A16	R-747	98	0:12	95	0:10	193	-0:02							
	A42	DC-8-20	56	0:13			56								
	650	DC-8-61F	18	0:19	2	0:16	18								
	651	DC-8-61	18	0:14			20	0:02							
	TOTAL				556	0:19	684	0:07	1220	-0:02					
PA	710	R-727-100	4	0:06			4								
	808	R-707-600R	17	0:12			17								
	809	R-707-300C	5	0:16	36	0:12	41	-0:05							
	A16	R-747			50	0:08	50								

ALL TIMES ARE IN HOURS AND MINUTES

TABLE I - 5-6 (CONTINUED)

AIRLINE DELAYS DURING 1974 AND 1975

SEGMENT JEW 832 VIA (CONTINUED) STAGE LENGTH = 1000 ST. MILES AIRCRAFT	CATALOGIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE			1974			1975			#FLIGHTS	TOTAL	CHANGE IN #FLIGHTS	NOMINAL TIME (DATE)
	#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY							
TOTAL	26	0112	66	0110	92	0102							
ROUTE SUMMARY	2976	0110	5114	0110	6097	0100							

-----ALL TIMES ARE IN HOURS AND MINUTES-----

TABLE I - 5 - 7

AIRBORNE DISPLAYS DURING 1974 AND 1975
CATALOGUED BY UNIT, SEGMENT, ATTRIBUTE AND EQUIPMENT TYPE

SEGMENT TAX #> SFC		STAGE LENGTH = 337 ST. MILES		1974		1975		TOTAL		CHASER AIR DISPLAY		TOTAL TIME (DATE)	
ATTRIBUTE	AIRCRAFT	#FLIGHTS	Avg AIR DISPLAY	#FLIGHTS	Avg AIR DISPLAY	#FLIGHTS	Avg AIR DISPLAY	#FLIGHTS	Avg AIR DISPLAY	#FLIGHTS	Avg AIR DISPLAY	#FLIGHTS	Avg AIR DISPLAY
A.A.	AOA H-707-SN04 AOQ H-707-SN0C TOTAL	191	0:05	1	0:01	1	0:01	1	0:02	1	0:02	0:04h (7204)	0:04h (7204)
		591	0:05	364	0:07	364	0:07	755	0:07				
H.N.	AQR DC-8-A50 AS4 DC-8-A2	151	0:07	154	0:07	157	0:07	304	0:07	307	-0:00	0:04h (7204)	0:04h (7204)
	TOTAL											-0:00	
D.L.	AQR DC-8-A50 AS1 DC-8-A1	11	0:08	1	0:02	1	0:02	12	0:02	12	-0:01	0:04h (7204)	0:04h (7204)
	TOTAL	346	0:01	418	0:05	419	0:05	814	0:04	816	0:04	0:04h (7204)	0:04h (7204)
N.W.	710 H-727-100 715 H-727-200 733 DC10-40 A16 R-747	1	0:07	1	0:09	1	0:09	1	0:09	1	0:09	0:04h (7204)	0:04h (7204)
	TOTAL	1	0:07	330	0:07	330	0:07	418	0:07	418	0:07	0:04h (7204)	0:04h (7204)
P.A.	AOA H-707-100A AOQ H-707-100C A16 H-747	129	0:06	193	0:07	128	0:07	322	0:07	322	0:02	0:04h (7204)	0:04h (7204)
	TOTAL	553	0:06	702	0:07	702	0:07	1255	0:07	1255	0:01	0:04h (7204)	0:04h (7204)
R.H.	A50 DC-8-10 A40 DC-8-30	423	0:07	A71	0:06	1023	0:07	1894	0:07	1894	0:01		
	TOTAL												
T.W.	710 H-727-100 711 H-727-100C 715 H-727-200	69	0:04	29	0:04	98	0:04	321	0:05	321	-0:01	0:04h (7204)	0:04h (7204)
		16	0:03	12	0:04	115	0:05					0:04h (7204)	0:04h (7204)

-----ALL TIMES ARE IN HOURS AND MINUTES-----

TABLE I-5-7 (CONTINUED)

AIRBORNE DELAYS DURING 1974 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT LENGTH => SFO (CONTINUOUS)

STAGE LENGTH => 337 ST. MILES

AIRCRAFT	AIRCRAFT	1974		1975		TOTAL #FLIGHTS	TOTAL #FLIGHTS	CHANGE IN AVG AIR DELAY	NOMINAL TIME (DAFF)
		#FLIGHTS	AVG AIR DELAY	#FLIGHTS	AVG AIR DELAY				
TW (CONT)	L=1011	1177	0:004	214	0:03	391	0:00	0:006 (7204)	
A02	R=707-1100	680	0:005	779	0:06	1459	0:01	0:046 (7204)	
A16	R=707-110	35	0:005	94	0:06	120	0:01	0:046 (7204)	
A08	R=707-3100R	445	0:005	438	0:06	881	0:01	0:046 (7204)	
A09	R=707-3100	510	0:006	269	0:06	779	0:01	0:046 (7204)	
A16	R=747	186	0:006	213	0:07	399	0:01	0:046 (7204)	
	TOTAL	2124	0:005	2163	0:06	4487	0:00		
UA	R=737-200	694	0:006	866	0:08	1560	0:00	0:046 (7204)	
710	R=727-1100	1636	0:005	2007	0:05	4094	0:00	0:046 (7204)	
711	R=727-1100C/QC	482	0:006	532	0:06	814	-0:00	0:046 (7204)	
715	R=727-200	134	0:005	66	0:06	200	0:01	0:046 (7204)	
	TOTAL	620	0:006	10	0:13	15	0:00	0:046 (7204)	
A16	R=747	5	0:008	9	0:07	12	-0:02	0:046 (7204)	
A02	DC-A-20	187	0:006	276	0:06	463	0:00	0:046 (7204)	
A04	DC-A-30	15	0:008	15	0:06	15	0:00	0:046 (7204)	
A06	DC-A-50	53	0:004	136	0:05	189	0:01	0:046 (7204)	
A50	DC-A-50RF	164	0:006	181	0:07	345	0:00	0:046 (7204)	
A51	DC-A-61	122	0:006	546	0:07	668	0:01	0:046 (7204)	
A54	DC-A-62	88	0:005	62	0:05	150	-0:00	0:046 (7204)	
	TOTAL	5583	0:006	4946	0:06	8529	0:00		
UA	R=737-200	807	0:006	1058	0:07	1465	0:01	0:046 (7204)	
715	R=727-200	542	0:004	1466	0:04	2008	-0:00	0:046 (7204)	
730	R=707-110	1	0:003	1	0:06	2	0:03	0:046 (7204)	
A09	R=707-3100C	39	0:004	145	0:07	184	0:03	0:046 (7204)	
A14	R=720-000R	192	0:004	699	0:05	ABK	0:01	0:046 (7204)	
	TOTAL	1581	0:005	3364	0:05	4945	0:00		
	RAILTF SUMMARY	10064	0:006	13935	0:06	23999	0:01		

-----ALL TIMES ARE IN HOURS AND MINUTES-----

TABLE I - 5 - 8

AIRLINE DELAYS DURING 1974 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT LGA => RDU STAGE LENGTH = 185 ST. MILES		1974			1975			TOTAL		
AIRLINE	AIRCRAFT	#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY	#FLIGHTS	Avg AIR DELAY	
AA										
	710 H=727-100	862	0:107	1071	0:118	1933	0:101	0:126 (7212)		
	B=727-200	641	0:106	585	0:108	1426	0:102	0:126 (7212)		
	710 DC-10-1n	109	0:110	144	0:107	253	-0:02	0:126 (7212)		
TOTAL		1812	0:107	1800	0:118	3612	0:101			
DL										
	6400 DC-9-30	211	0:102	57	0:110	268	0:108	0:126 (7212)		
	B=727-200	715	0:102	244	0:107	244		0:126 (7212)		
TOTAL		211	0:102	301	0:108	512	0:106			
FA										
	550 L-100A-0/A/1AC	2766	0:105	3099	0:105	5685	0:101	0:135 (7212)		
	640 NC-9-30	5720	0:107	4656	0:104	1676	0:101	0:126 (7212)		
	710 R=727-100	88	0:107	67	0:109	155	0:102	0:126 (7212)		
	711 B=727-100C/2C	26	0:106	43	0:110	69	0:104	0:126 (7212)		
	715 R=727-200	163	0:109	101	0:110	264	0:101	0:126 (7212)		
	L=1011	760	0:111	22	0:110	22		0:126 (7212)		
TOTAL		4763	0:107	4244	0:107	17051	0:101			
TM										
	630 DC-9-10	142	0:108	142	0:108	142	0:126 (7212)			
	B=727-100	710	1	1	1	1		0:126 (7212)		
TOTAL				143	0:108	143				
ROUTE SUMMARY		10786	0:107	10532	0:107	21318	0:101			

----- ALL TIMES ARE IN HOURS AND MINUTES -----

TABLE I-5-9

AIRBORNE DELAYS DURING 1974 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE

SEGMENT DIRN => STL SEGMENT LENGTH = 250 MI. W.L.		1974		1975		TOTAL		CHANGE IN AVG AIR DELAY		NOMINAL TIME (DATE)	
AIRLINE	AIRCRAFT	# FLIGHTS	Avg Air Delay	# FLIGHTS	Avg Air Delay	# FLIGHTS	Avg Air Delay	# FLIGHTS	Avg Air Delay	# FLIGHTS	Nominal Time (Date)
AA	R-727-100	248	0:06	207	0:07	455	0:01	0:13A (7205)	0:01	0:13A (7205)	0:01
	R-727-200	119	0:06	305	0:06	424	0:02			0:13A (7205)	
	R-10-10	730	0:06	1	0:01	1				0:13A (7205)	
	R-707-100A	652	0:06	241	0:16	893	0:00	0:13A (7204)	0:00	0:13A (7205)	0:00
	R-707-200A	58	0:06	33	0:15	71	-0:01			0:13A (7205)	
	R-707-300C	57	0:06	45	0:07	102	-0:01			0:13A (7205)	
TOTAL		1114	0:06	832	0:07	1946	0:01				
DL	DC-9-30	2612	0:04	2850	0:07	5462	0:03	0:13A (7205)	0:03	0:13A (7205)	0:03
	R-727-100	114	0:04	1	0:00	115	-0:03				
	R-727-200	292	0:01	321	0:06	613	0:04	0:13A (7205)	0:04	0:13A (7205)	0:04
	DC-8-30	2	0:04	2	0:00	2				0:13A (7205)	
	DC-8-50	2	0:04	60	0:07	62	0:03			0:13A (7205)	
TOTAL		3022	0:03	3257	0:07	6259	0:03				
UA	FH-227	452	0:06	3	0:26	5	0:20	1105 (7212)	0:20	0:13A (7205)	0:20
	DC-9-10	197	0:06	305	0:04	502	0:03			0:13A (7205)	
	DC-9-30	921	0:06	1669	0:08	2590	0:02			0:13A (7205)	
TOTAL		1120	0:06	1977	0:08	5097	0:02				
ROUTE SUMMARY		5256	0:05	6041	0:07	11297	0:03				

ALL TIMES ARE IN HOURS AND MINUTES-----

TABLE I-5-10

AIRBORNE DELAYS DURING 1974 AND 1975
CATEGORIZED BY ROUTE SEGMENT, AIRLINE AND EQUIPMENT TYPE.

SEGMENT SEQ => STA ST. MILES	AIRCRAFT	1974		1975		TOTAL #FLIGHTS	CHANGE IN AVG AIR DELAY	TOTAL #FLIGHTS	CHANGE IN AVG AIR DELAY	
		#FLIGHTS	AVG AIR DELAY	#FLIGHTS	AVG AIR DELAY					
PA	R06 R=707-300R	2	0:08	65	0:11	67	0:03	1124 (7206)	1124 (7206)	
	R1A R=747	96	0:03	176	0:04	274	0:02			
	TOTAL	98	0:03	241	0:06	341	0:03			
UA	B=737-200	3	0:13	6	0:16	6	0:03	1124 (7206)	1124 (7206)	
	B=727-100C	671	0:07	1569	0:07	2440	-0:01			
	B=727-100C/AC	369	0:08	416	0:08	785	0:00	1124 (7206)	1124 (7206)	
	B=727-200	13	0:05	13	0:07	101	0:02			
	DC-10-10	1	0:12	79	0:12	60	-0:10	1124 (7206)	1124 (7206)	
	DC-10-10	1	0:02	1	0:02	1	0:00			
	R=747	249	0:04	426	0:06	675	0:00	1124 (7206)	1124 (7206)	
	DC-R=20	7	0:14	184	0:16	7	0:00			
	DC-B=10	89	0:09	184	0:09	277	-0:01	1124 (7206)	1124 (7206)	
	DC-R=50	848	0:09	23	0:09	25	0:00			
	ASN	192	0:07	20	0:07	212	0:01	1124 (7206)	1124 (7206)	
	DC-R=50F	851	0:05	3	0:02	20	-0:03			
	DC-B=61	17	0:05	1	0:02			1124 (7206)	1124 (7206)	
	DC-R=62	1812	0:08	2417	0:07	4629	-0:01			
	TOTAL									
WA	R=737-200	620	0:10	1173	0:11	1794	0:01	1124 (7206)	1124 (7206)	
	R=727-200	715	0:03	960	0:04	1460	0:01			
	R=707-300C	A09	0:03	2	0:03	2	0:00	1124 (7206)	1124 (7206)	
	R=720-000R	A14	144	0:07	60	0:07	208	0:00		
	TOTAL			1211	0:07	2193	0:00	3404	0:01	
	ROUTE SUMMARY			3121	0:07	5253	0:07	8374	0:00	

----- ALL TIMES ARE IN HOURS AND MINUTES -----

CHAPTER II. GROUND DELAYS

Chapter II is divided into two parts:

- Table II-1 shows the nominal ground times for departures and arrivals at 20 airports.
- Tables and Figures II-2-1 to II-2-20 illustrate average monthly departure and arrival ground delays and traffic activity during 1974 and 1975. These are shown for busy and dull intervals at 20 airports.

NOTE:

The Port Authority of New York/New Jersey did not supply the average hourly departure and arrival ground times for the three New York airports; Kennedy, La Guardia, and Newark for the months of November and December. These data were essential to the statistical model devised to generate an accurate series of ground times in both the departure and arrival direction for at each the 20 airports included in the study. Therefore, estimates for the average ground times are not shown for these two months.

TABLE II-1

NONSTOP GROUND TIMES

ARRIVAL	DEPARTURE	ARRIVAL
ATL	4	
BOS	9	2
CIT	7	5
DCA	9	5
JFK	3	2
DFW	6	5
DTW	4	5
FLL	4	4
JFK	15	7
LAX	9	5
LGA	4	4
MIA	7	2
ESP	5	2
MSY	4	2
TPA	9	5
PHL	7	2
PIT	2	2
SFO	6	2
SFJ	8	5
STL	3	2

ALL TIMES ARE IN MINUTES

TABLE II-2-1

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS FOR AIRPORT ATL

	1974		1975	
	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS
	BUSY	DULL	BUSY	DULL
JAN	0:110	0:107	0:106	0:102
FEB	0:110	0:109	0:106	0:103
MAR	0:110	0:109	0:104	0:100
APR	0:111	0:109	0:105	0:104
MAY	0:111	0:112	0:106	0:103
JUN	0:112	0:112	0:105	0:102
JUL	0:112	0:111	0:105	0:102
AUG	0:112	0:110	0:105	0:101
SEP	0:113	0:112	0:106	0:102
OCT	0:111	0:109	0:106	0:104
NOV	0:111	0:109	0:106	*
DEC	0:110	0:108	0:106	*
TOTAL	0:111	0:104	0:111	0:104

NOMINAL GROUND TIME = 8.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 4.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT ATL

TO AND FROM 19 STUDY AIRPORTS

	1974		1975	
	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS
	BUSY	DULL	BUSY	DULL
JAN	1615	158	1791	18
FEB	3018	440	3194	155
MAR	3203	366	3564	93
APR	3078	329	3199	60
MAY	3225	531	3371	122
JUN	2947	456	3076	90
JUL	2950	411	3104	92
AUG	3450	559	3981	145
SEP	3219	446	3358	142
OCT	3145	453	3425	114
NOV	3599	472	3499	195
DEC	3122	452	3230	180
TOTAL	36811	5073	38650	1386

FIGURE II-2-1
ATL

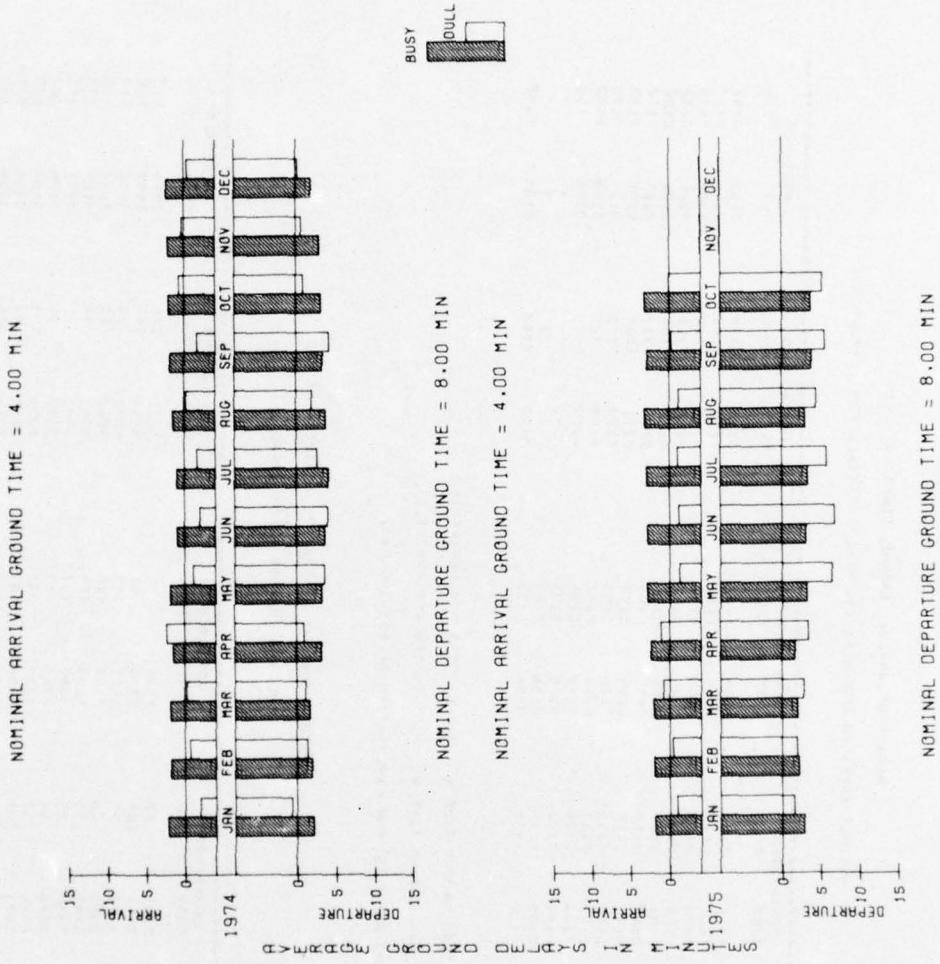


TABLE III-2-2

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGEFS F1W RUGY VS. DULL INTERVALS FOR AIRPORT HOS

		1974				1975			
		ARRIVALS		DEPARTURES		ARRIVALS		DEPARTURES	
		RUGY	DULL	RUGY	DULL	RUGY	DULL	RUGY	DULL
JAN	0:110	0:114	0:05	0:02	0:09	0:07	0:05	0:02	0:02
FEB	0:111	0:111	0:06	0:02	0:06	0:06	0:05	0:02	0:02
MAR	0:109	0:112	0:05	0:03	0:09	0:08	0:05	0:03	0:03
APR	0:108	0:108	0:05	0:03	0:08	0:08	0:05	0:02	0:02
MAY	0:109	0:111	0:06	0:02	0:08	0:08	0:06	0:02	0:02
JUN	0:109	0:110	0:05	0:02	0:10	0:10	0:05	0:02	0:02
JUL	0:110	0:108	0:05	0:02	0:11	0:11	0:05	0:02	0:02
AUG	0:109	0:110	0:05	0:03	0:09	0:08	0:06	0:02	0:02
SEP	0:108	0:110	0:06	0:02	0:08	0:08	0:06	0:02	0:02
OCT	0:108	0:109	0:06	0:03	0:09	0:09	0:06	0:02	0:02
NOV	0:109	0:107	0:06	0:03	0:08	0:08	0:06	0:02	0:02
DEC	0:109	0:108	0:06	0:03	0:09	0:08	0:06	0:02	0:02
TOTAL	0:109	0:109	0:05	0:03	0:09	0:08	0:05	0:02	0:02

NOMINAL GROUND TIME = 9.0 MINUTES FOR DEPARTURES

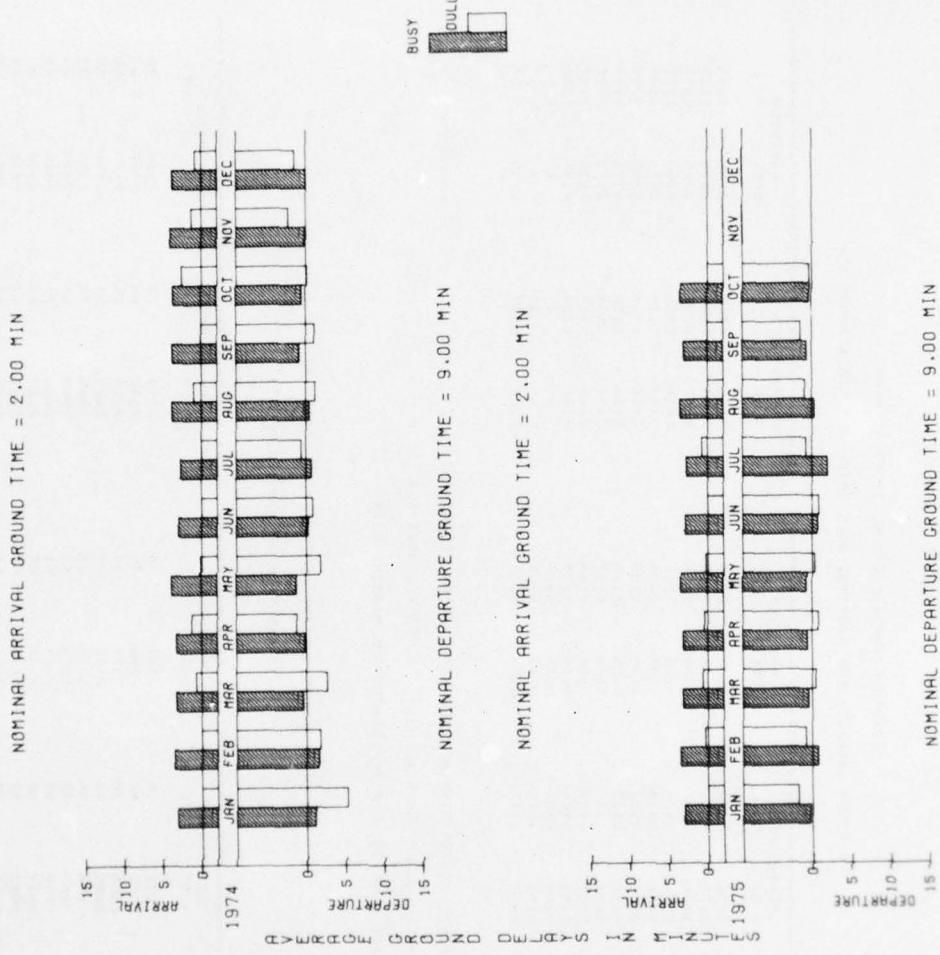
NOMINAL GROUND TIME = 2.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT HOS
TO AND FROM 19 STUDY AIRPORTS

		1974				1975			
		ARRIVALS		DEPARTURES		ARRIVALS		DEPARTURES	
		RUGY	DULL	RUGY	DULL	RUGY	DULL	RUGY	DULL
JAN	2221	27	2136	1	3727	170	3569	173	173
FEB	3551	109	3519	93	3830	145	3599	163	163
MAR	1774	95	3581	113	4020	74	3671	119	119
APR	3687	72	3364	110	3882	69	3473	115	115
MAY	3193	53	3293	124	4301	94	4129	173	173
JUN	1338	51	3067	137	3551	71	3231	145	145
JUL	3224	52	2918	117	3392	74	3126	120	120
AUG	4626	151	4557	230	4430	103	4146	183	183
SEP	3971	141	3639	187	3751	97	3444	175	175
OCT	4019	151	3676	169	3755	105	3349	187	187
NOV	4101	145	3874	236	4084	147	3870	165	165
DEC	3870	175	3624	207	3316	132	3330	104	104
TOTAL	43875	1222	40847	1728	46053	1281	42917	1822	1822

FIGURE III-2-2
BOS



AD-A039 483

TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MASS

AIRLINE DELAY TRENDS, 1974-1975. A STUDY OF BLOCK TIME DELAYS, --ETC(U)

UNCLASSIFIED

TSC-FAA-77-6

FAA-EM-77-2

F/G 1/2

MAR 77 H M CONDELL, S M HOROWITZ

2 of 3
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NL

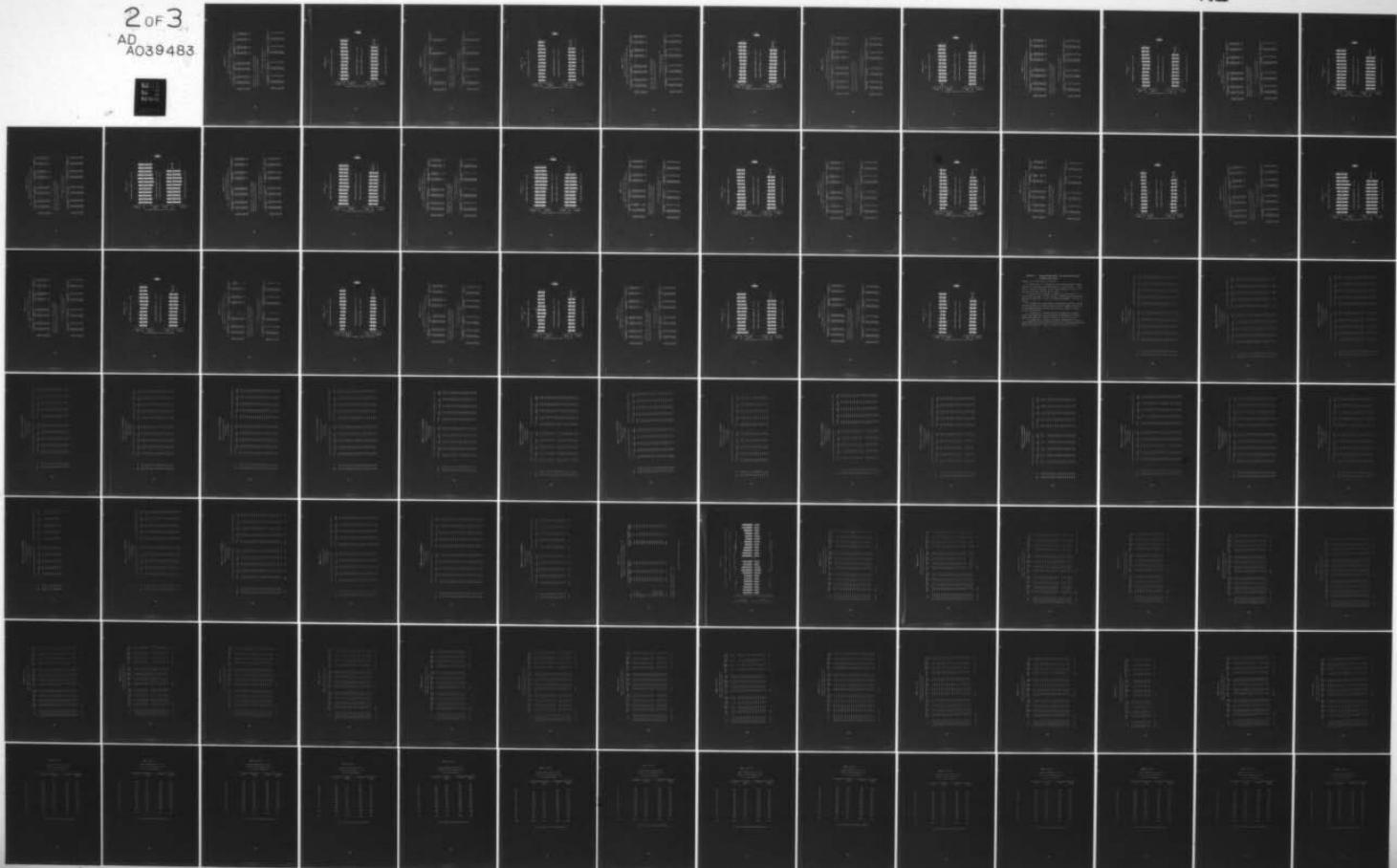


TABLE III-2-3

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR RUSH VS. DULL INTERVALS FOR AIRPORT CLT

	1974			1975		
	DEPARTURES	ARRIVALS	DULL	DEPARTURES	ARRIVALS	DULL
	RUSHY	DULL	RUSHY	DULL	RUSHY	DULL
JAN	0106	0109	0106	0106	0106	0105
FEB	0108	0111	0108	0110	0107	0106
MAR	0106	0107	0105	0106	0105	0107
APR	0107	0106	0105	0105	0106	0106
MAY	0106	0109	0105	0106	0107	0106
JUN	0107	0107	0105	0104	0106	0105
JUL	0108	0107	0105	0106	0106	0106
AUG	0108	0106	0106	0107	0106	0106
SEP	0107	0107	0106	0106	0109	0109
OCT	0106	0105	0106	0106	0109	0108
NOV	0105	0105	0106	0106	*	*
DEC	0106	0111	0108	0107	*	*
TOTAL	0107	0107	0106	0107	0107	0107

MINIMAL GROUND TIME = 7.0 MINUTES FOR DEPARTURES

MINIMAL GROUND TIME = 3.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

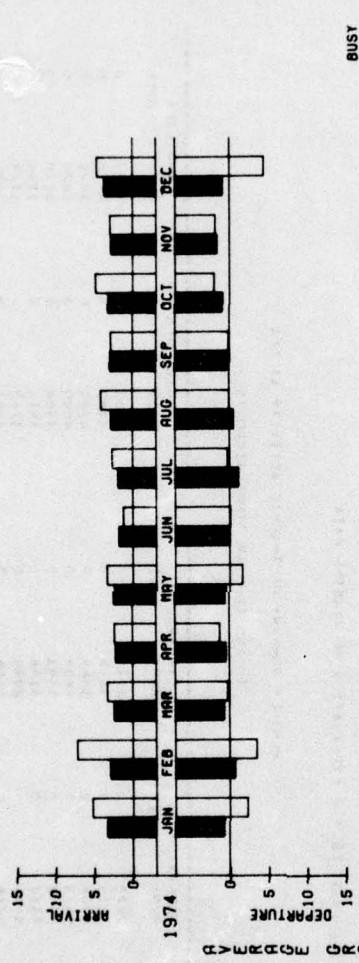
MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT CLT
IN AND FROM 19 STUDY AIRPORTS

	1974			1975		
	DEPARTURES	ARRIVALS	DULL	DEPARTURES	ARRIVALS	DULL
	RUSHY	DULL	RUSHY	DULL	RUSHY	DULL
JAN	312	19	345	50	2354	70
FEB	2502	60	2222	75	2377	65
MAR	2516	70	2438	88	2575	56
APR	2460	46	2390	64	2466	53
MAY	1194	49	1206	52	2685	74
JUN	967	46	1010	50	2442	65
JUL	980	47	1023	51	2416	70
AUG	3037	94	2966	59	2667	84
SEP	2622	62	2630	52	2387	45
OCT	2652	64	2671	56	1941	23
NOV	2115	34	2058	54	2630	59
DEC	1940	34	1906	47	1859	48
TOTAL	23049	637	22485	604	26814	712

FIGURE 11-2-3

CLE

NOMINAL ARRIVAL GROUND TIME = 3.00 MIN



NOMINAL DEPARTURE GROUND TIME = 7.00 MIN

NOMINAL ARRIVAL GROUND TIME = 3.00 MIN

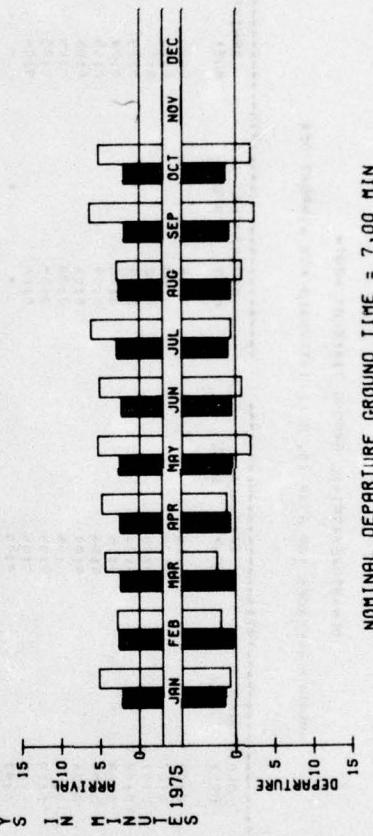


TABLE II-2-4

MONTHLY AVERAGE GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR HUSTY VS. DULL INTERVALS FOR AIRPORT DCA

DEPARTURES 1974		ARRIVALS 1974		DEPARTURES 1975		ARRIVALS 1975	
HUSTY	DULL	HUSTY	DULL	HUSTY	DULL	HUSTY	DULL
JAN	0:007	0:004	0:008	0:005	0:005	0:005	0:005
FEB	0:007	0:004	0:008	0:005	0:005	0:005	0:005
MAR	0:007	0:005	0:007	0:007	0:005	0:005	0:005
APR	0:008	0:004	0:007	0:007	0:005	0:004	0:005
MAY	0:008	0:005	0:008	0:005	0:005	0:005	0:005
JUN	0:009	0:004	0:009	0:004	0:009	0:005	0:005
JUL	0:009	0:004	0:009	0:005	0:008	0:005	0:005
AUG	0:009	0:005	0:009	0:005	0:008	0:005	0:005
SEP	0:009	0:005	0:009	0:005	0:008	0:005	0:005
OCT	0:008	0:004	*	*	*	*	*
NOV	0:007	0:004	*	*	*	*	*
DEC	0:007	0:004	*	*	*	*	*
TOTAL	0:008	0:004	0:008	0:005	0:005	0:005	0:005

MINIMUM GROUND TIME = 9.0 MINUTES FOR DEPARTURES

MINIMUM GROUND TIME = 5.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT RCA

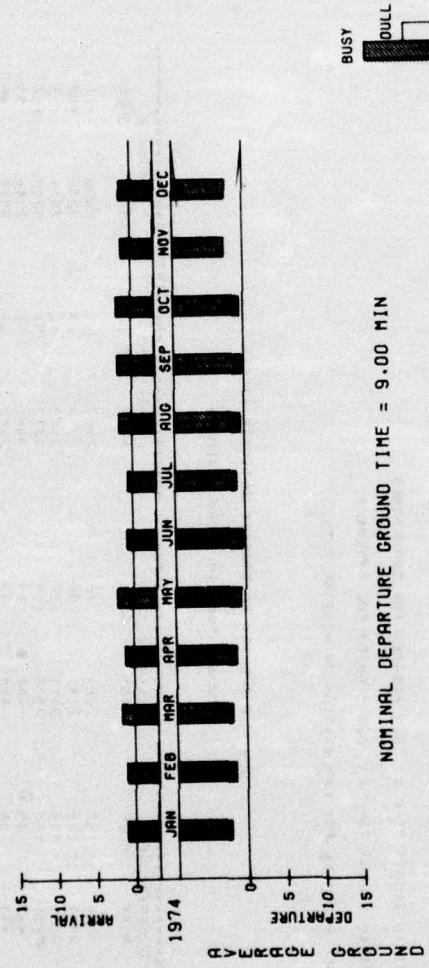
TRI AND FWTW 19 STUDY AIRPORTS

DEPARTURES 1974		ARRIVALS 1974		DEPARTURES 1975		ARRIVALS 1975		
HUSTY	DULL	HUSTY	DULL	HUSTY	DULL	HUSTY	DULL	
JAN	2120	0	2115	0	4007	0	3854	0
FEB	1615	0	1434	0	3742	0	3577	0
MAR	1619	0	1469	0	4204	0	3924	0
APR	1615	0	1409	0	4049	0	3820	0
MAY	1612	0	1493	0	4354	0	4170	0
JUN	1314	0	1414	0	3411	0	3764	0
JUL	1316	0	2455	0	3762	0	5723	0
AUG	1214	0	1465	0	4045	0	5971	0
SEP	1617	0	1769	0	3685	0	3607	0
OCT	0:009	0	3915	0	3340	0	3274	0
NOV	1510	0	3579	0	3744	0	3756	0
DEC	1513	0	3219	0	3414	0	3240	0
TOTAL	42497	0	41111	0	46315	0	44755	0

FIGURE II-2-4

DCA

NOMINAL ARRIVAL GROUND TIME = 3.00 MIN



NOMINAL DEPARTURE GROUND TIME = 9.00 MIN

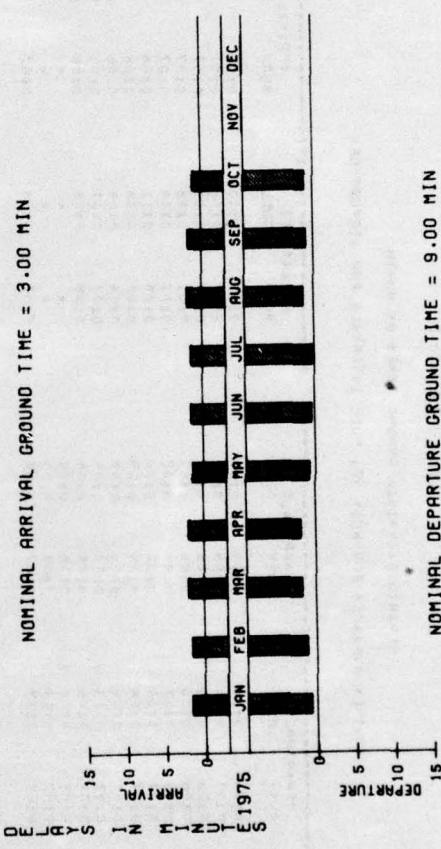


TABLE III-2-5
DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR RUSH VS. NULL INTERVALS FOR AIRPORT DEN

		1974				1975			
		ARRIVALS		DEPARTURES		ARRIVALS		DEPARTURES	
		RUSHY	NULL	RUSHY	NULL	RUSHY	NULL	RUSHY	NULL
JAN	0106	0110	0109	0104	0107	0110	0107	0107	0105
FEB	0105	0105	0105	0103	0107	0106	0106	0107	0105
MAR	0106	0106	0106	0102	0107	0105	0105	0107	0105
APR	0106	0104	0106	0104	0107	0108	0107	0107	0105
MAY	0105	0107	0105	0102	0107	0109	0107	0107	0105
JUN	0107	0109	0104	0104	0105	0108	0111	0104	0104
JUL	0107	0108	0105	0105	0108	0108	0106	0106	0104
AUG	0107	0109	0106	0104	0108	0109	0106	0106	0104
SEP	0107	0113	0107	0104	0107	0107	0107	0105	0104
OCT	0107	0106	0108	0106	0108	0108	0106	0106	0106
NOV	0107	0107	0106	0106	*	*	*	*	*
DEC	0107	0108	0108	0105	*	*	*	*	*
TOTAL	0107	0107	0104	0107	0108	0108	0107	0105	0104

NOMINAL GROUND TIME = 3.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 2.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

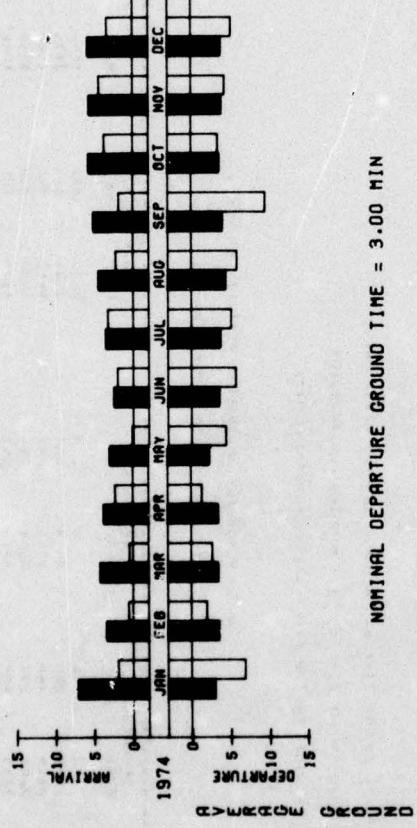
MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT DEN
TO AND FROM 19 STUDY AIRPORTS

		1974				1975			
		ARRIVALS		DEPARTURES		ARRIVALS		DEPARTURES	
		RUSHY	NULL	RUSHY	NULL	RUSHY	NULL	RUSHY	NULL
JAN	429	50	461	76	2487	50	2486	111	111
FEB	209	102	2181	98	2252	48	2232	102	102
MAR	251	106	2611	117	2502	56	2436	115	115
APR	222	101	2308	109	2272	53	2240	107	107
MAY	968	75	992	93	2481	51	2446	93	93
JUN	890	48	928	59	2102	49	2072	90	90
JUL	910	51	953	60	2161	52	2133	92	92
AUG	2463	53	2904	114	2807	51	2784	92	92
SEP	2472	51	2520	107	2190	52	2463	89	89
OCT	2384	51	2446	112	2405	53	2510	91	91
NOV	2201	46	2242	103	2405	40	2433	85	85
DEC	2237	48	2325	108	2023	52	2027	90	90
TOTAL	21919	762	27701	1156	28247	607	28266	1159	1159

FIGURE III-2-5

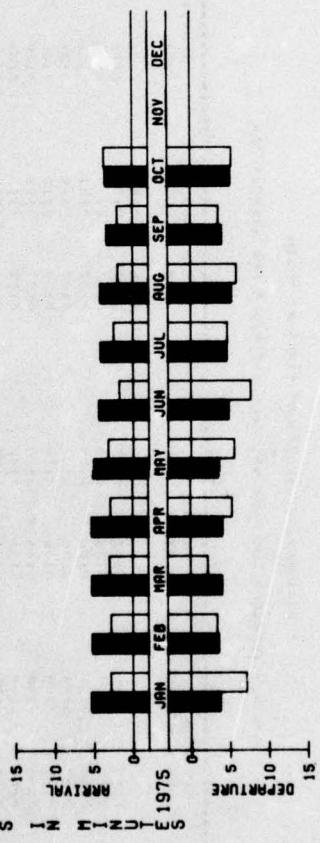
DEN

NOMINAL ARRIVAL GROUND TIME = 2.00 MIN.



NOMINAL DEPARTURE GROUND TIME = 3.00 MIN

NOMINAL ARRIVAL GROUND TIME = 2.00 MIN



NOMINAL DEPARTURE GROUND TIME = 3.00 MIN

TABLE II-2-6

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR RUSHY VS. DULL INTERVALS FOR AIRPORT OF W

DEPARTURES	1974		1975	
	RUSHY	DULL	RUSHY	DULL
JAN	0:10	0:10	0:07	0:05
FEB	0:09	0:07	0:06	0:05
MAR	0:09	0:08	0:05	0:05
APR	0:08	0:06	0:05	0:05
MAY	0:07	0:06	0:04	0:05
JUN	0:06	0:04	0:04	0:04
JUL	0:06	0:04	0:04	0:04
AUG	0:06	0:04	0:04	0:04
SEP	0:06	0:04	0:04	0:04
OCT	0:07	0:07	0:07	0:06
NOV	0:07	0:07	0:06	0:06
DEC	0:07	0:09	0:06	0:06
TOTAL	0:06	0:06	0:05	0:05

MONTHLY GROUND TIME = 600 MINUTES FOR DEPARTURES

MONTHLY GROUND TIME = 300 MINUTES FOR ARRIVALS

• SEE PAGE 78 FOR EXPLANATION OF ASSUMED DATA

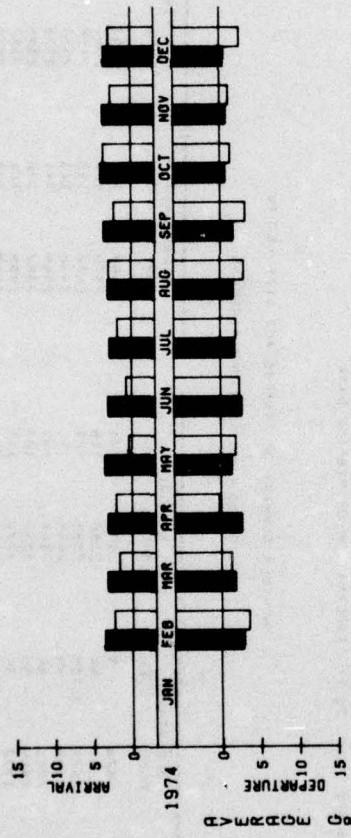
MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT 15M
TO AND FROM 10 STUDY AIRPORTS

DEPARTURES	1974		1975	
	RUSHY	DULL	RUSHY	DULL
JAN	0	0	0	2497
FEB	2707	280	2549	247
MAR	2819	262	2703	313
APR	2603	234	2604	3041
MAY	1263	204	1210	3112
JUN	2442	200	2426	325
JUL	2465	121	2481	325
AUG	3566	147	3543	2942
SEP	2900	511	3172	202
OCT	1100	425	3182	2957
NOV	1109	295	3147	154
DEC	5124	295	3184	3279
TOTAL	51272	3250	52929	3114

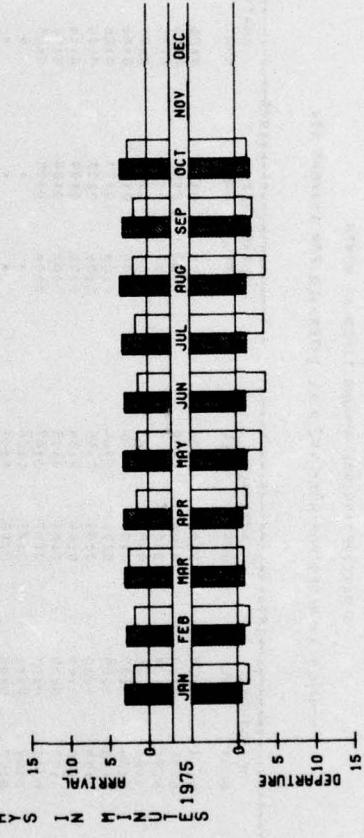
FIGURE II-2-6

DFW

NOMINAL ARRIVAL GROUND TIME = 3.00 MIN



NOMINAL DEPARTURE GROUND TIME = 6.00 MIN



NOMINAL ARRIVAL GROUND TIME = 3.00 MIN

NOMINAL DEPARTURE GROUND TIME = 6.00 MIN

TABLE III-2-7

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS FOR AIRPORT NYW

		1974				1975			
		ARRIVALS		DEPARTURES		ARRIVALS		DEPARTURES	
		RUSTY	DULL	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
JAN	0108	0109	0106	0102	0106	0110	0106	0106	0107
FEB	0108	0108	0106	0104	0107	0117	0106	0106	0106
MAR	0107	0107	0106	0105	0107	0107	0106	0106	0106
APR	0106	0105	0106	0106	0106	0108	0106	0107	0107
MAY	0106	0107	0106	0104	0106	0107	0106	0105	0105
JUN	0108	0109	0106	0104	0106	0107	0106	0105	0105
JUL	0108	0110	0105	0105	0106	0107	0106	0106	0106
AUG	0109	0109	0106	0105	0106	0109	0106	0105	0105
SEP	0109	0109	0107	0105	0107	0109	0106	0105	0105
OCT	0107	0108	0107	0107	0106	0105	0105	0106	0106
NOV	0107	0106	0107	0108	*	*	*	*	*
DEC	0107	0106	0107	0107	0106	0109	0106	0105	0105
TOTAL	0107	0108	0106	0105	0106	0109	0106	0106	0106

MONTHLY GROUND TIME = 8.0 MINUTES FOR DEPARTURES

MONTHLY GROUND TIME = 3.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT NYW
TO AND FROM 19 STUDY AIRPORTS

		1974				1975			
		ARRIVALS		DEPARTURES		ARRIVALS		DEPARTURES	
		RUSTY	DULL	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
JAN	820	3	900	56	2669	100	2407	145	145
FEB	2346	94	2362	166	2570	122	2557	166	166
MAR	2620	109	2523	147	2672	132	2712	140	140
APR	2498	99	2413	157	2446	123	2513	122	122
MAY	2202	66	2146	144	2949	141	2773	140	140
JUN	1855	34	1752	109	2382	116	2385	130	130
JUL	1772	35	1720	111	2408	107	2367	134	134
AUG	3418	168	3292	240	3042	100	2924	204	204
SEP	2409	124	2646	244	2597	97	2573	171	171
OCT	2716	110	2636	254	1681	47	1716	65	65
NOV	1970	39	1877	84	2852	96	2744	204	204
DEC	1722	58	1557	79	2465	68	2390	165	165
TOTAL	26789	924	25890	1875	30735	1249	30081	1914	1914

FIGURE III-2-7
OTW

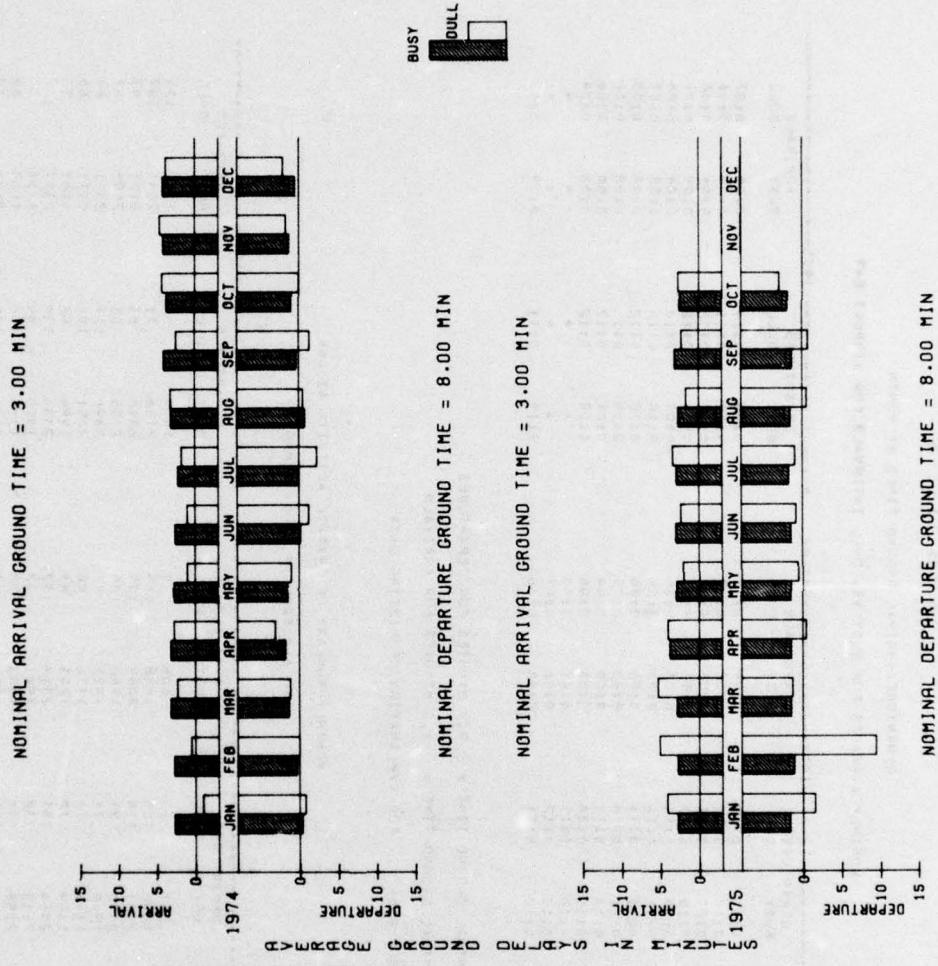


TABLE II-2-8

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS FROM AIRPORT EWR

	1974			1975				
	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS		
	RUSTY	DULL		RUSTY	DULL		RUSTY	DULL
JAN	0:110	0:117	0:09	0:112	0:09	0:111	0:08	0:107
FEB	0:110	0:112	0:08	0:107	0:08	0:110	0:08	0:106
MAR	0:109	0:113	0:08	0:108	0:08	0:112	0:08	0:106
APR	0:110	0:110	0:08	0:107	0:08	0:112	0:09	0:109
MAY	0:110	0:115	0:08	0:108	0:08	0:110	0:08	0:108
JUN	0:111	0:114	0:08	0:108	0:08	0:110	0:08	0:107
JUL	0:111	0:111	0:08	0:105	0:08	0:112	0:08	0:106
AUG	0:111	0:110	0:08	0:105	0:08	0:113	0:08	0:106
SEP	0:111	0:110	0:08	0:104	0:08	0:112	0:08	0:106
OCT	0:110	0:106	0:08	0:108	0:08	0:112	0:08	0:104
NOV	0:110	0:111	0:09	0:108	0:08	*	*	*
DEC	0:110	0:112	0:08	0:107	0:08	*	*	*
TOTAL	0:110	0:111	0:08	0:108	0:08	0:111	0:08	0:107

NOMINAL GROUND TIME = 9.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 4.0 MINUTES FOR ARRIVALS

* SEE PAGE FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT EWR
IN AND FROM 19 STUDY AIRPORTS

	1974			1975				
	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS		
	RUSTY	DULL		RUSTY	DULL		RUSTY	DULL
JAN	567	20	605	0	1969	80	1752	125
FEB	1496	125	1858	115	2156	71	2031	147
MAR	2117	118	2049	129	2348	83	2181	97
APR	2070	91	1980	125	2145	83	2098	67
MAY	1540	71	1527	83	2300	117	2511	64
JUN	1544	72	1574	80	2051	104	1971	66
JUL	1309	72	1243	81	1986	88	1887	70
AUG	2404	151	2314	152	2336	159	2507	102
SEP	2116	152	1941	122	1929	80	1780	90
OCT	2150	100	1945	124	1715	100	1509	88
NOV	2058	101	1952	113	2136	105	2188	77
DEC	1444	72	1636	121	1981	80	1875	80
TOTAL	21461	1171	20426	1231	25322	1151	23550	1077

FIGURE II-2-8
EWR

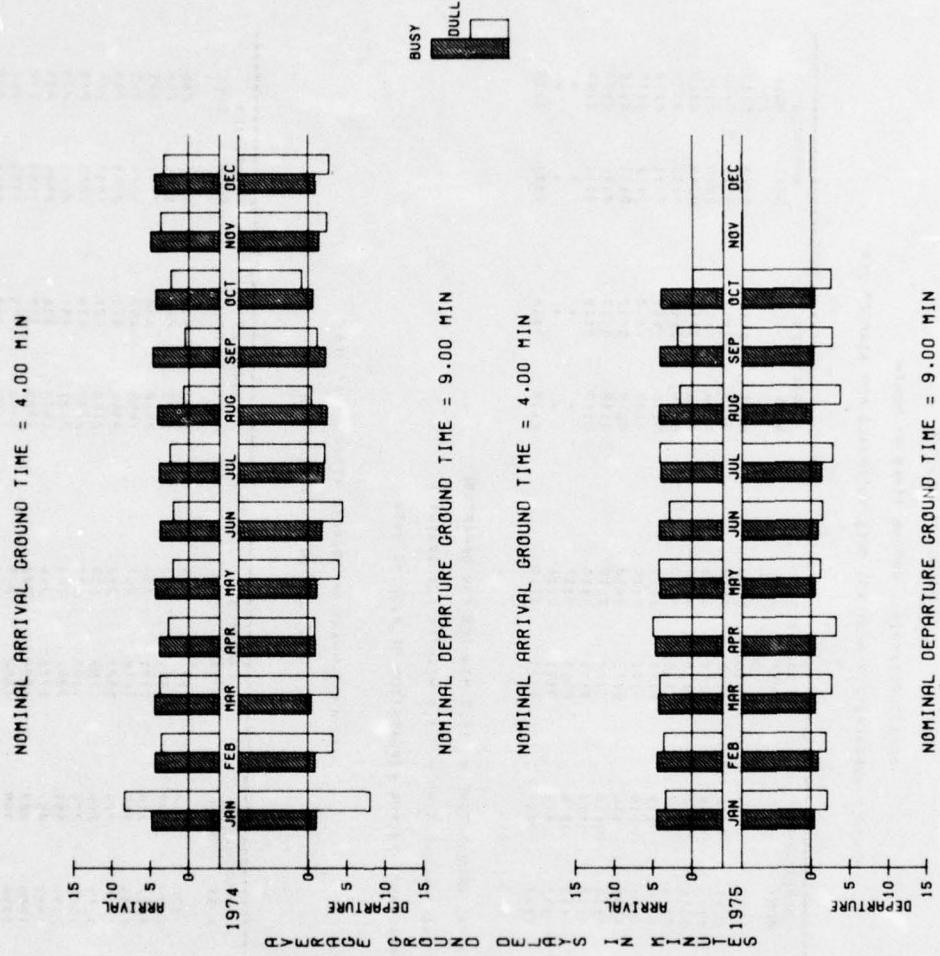


TABLE II-2-9
DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR RUSTY VS. DULL INTERVALS FOR AIRPORT JFK

	1974			1975		
	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS
	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
JAN	0:116	0:117	0:110	0:110	0:117	0:110
FEB	0:117	0:118	0:110	0:110	0:115	0:111
MAR	0:115	0:116	0:111	0:111	0:116	0:110
APR	0:116	0:116	0:110	0:110	0:115	0:110
MAY	0:116	0:117	0:110	0:109	0:116	0:111
JUN	0:119	0:119	0:111	0:110	0:118	0:111
JUL	0:121	0:119	0:111	0:110	0:120	0:112
AUG	0:120	0:116	0:112	0:110	0:119	0:111
SEP	0:118	0:116	0:112	0:110	0:118	0:110
OCT	0:117	0:114	0:111	0:110	0:117	0:115
NOV	0:116	0:115	0:111	0:110	*	*
DEC	0:117	0:116	0:111	0:111	*	*
TOTAL	0:117	0:117	0:110	0:116	0:116	0:110

NOMINAL GROUND TIME = 15.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 7.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT JFK
TO AND FROM 19 STUDY AIRPORTS

	1974			1975		
	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS	DEPARTURES	ARRIVALS
	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
JAN	820	97	771	50	1742	506
FEB	1699	592	1644	267	1970	462
MAR	2012	346	1771	296	2062	488
APR	1830	369	1616	267	1955	450
MAY	1305	279	1527	212	2364	464
JUN	1215	284	1267	174	2168	421
JUL	1103	274	1192	177	2230	430
AUG	2196	557	2092	284	2621	431
SEP	1963	457	1778	246	1920	334
OCT	1966	487	1594	272	1748	307
NOV	1756	469	1660	215	1994	351
DEC	1693	459	1624	212	1695	292
TOTAL	19642	4509	1848	2652	24509	4943

FIGURE II - 2 - 9

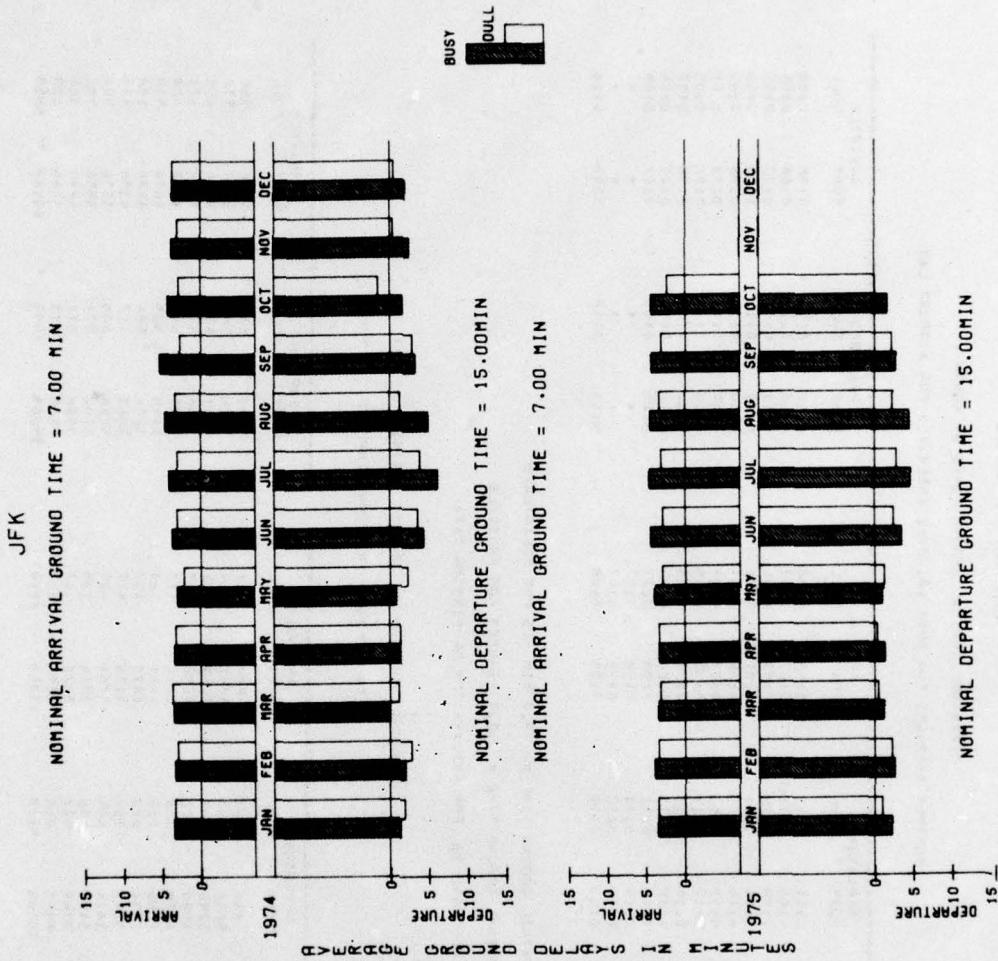


TABLE III-2-10

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS FOR AIRPORT LAX

1974			1975		
DEPARTURES		ARRIVALS	DEPARTURES		ARRIVALS
BUSY	DULL	BUSY	DULL	BUSY	DULL
JAN	0111	0111	0108	0108	0111
FEB	0109	0111	0107	0105	0110
MAR	0109	0112	0107	0106	0111
APR	0109	0111	0107	0106	0109
MAY	0110	0113	0108	0105	0112
JUN	0112	0113	0107	0106	0113
JUL	0110	0111	0107	0105	0110
AUG	0110	0113	0107	0105	0110
SEP	0110	0113	0108	0105	0112
OCT	0110	0111	0108	0107	0110
NOV	0110	0111	0108	0107	*
DEC	0110	0112	0109	0107	*
TOTAL	0110	0112	0108	0106	0110

NOMINAL GROUND TIME = 9.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 3.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT LAX
IN AND FROM 19 STUDY AIRPORTS

1974			1975		
DEPARTURES		ARRIVALS	DEPARTURES		ARRIVALS
BUSY	DULL	BUSY	DULL	BUSY	DULL
JAN	814	153	840	164	3273
FEB	1092	487	3287	560	531
MAR	3296	482	3452	576	3126
APR	3080	402	3292	467	3007
MAY	1670	254	1670	373	3198
JUN	1368	214	1491	163	5377
JUL	1334	224	1470	357	3148
AUG	1492	741	4116	877	3256
SEP	1476	605	3707	695	3268
OCT	3400	586	3022	725	3142
NOV	2764	527	3022	547	3388
DEC	2455	461	2995	512	2816
TOTAL	30863	5134	33114	6216	39263

FIGURE II-2-10
LAX

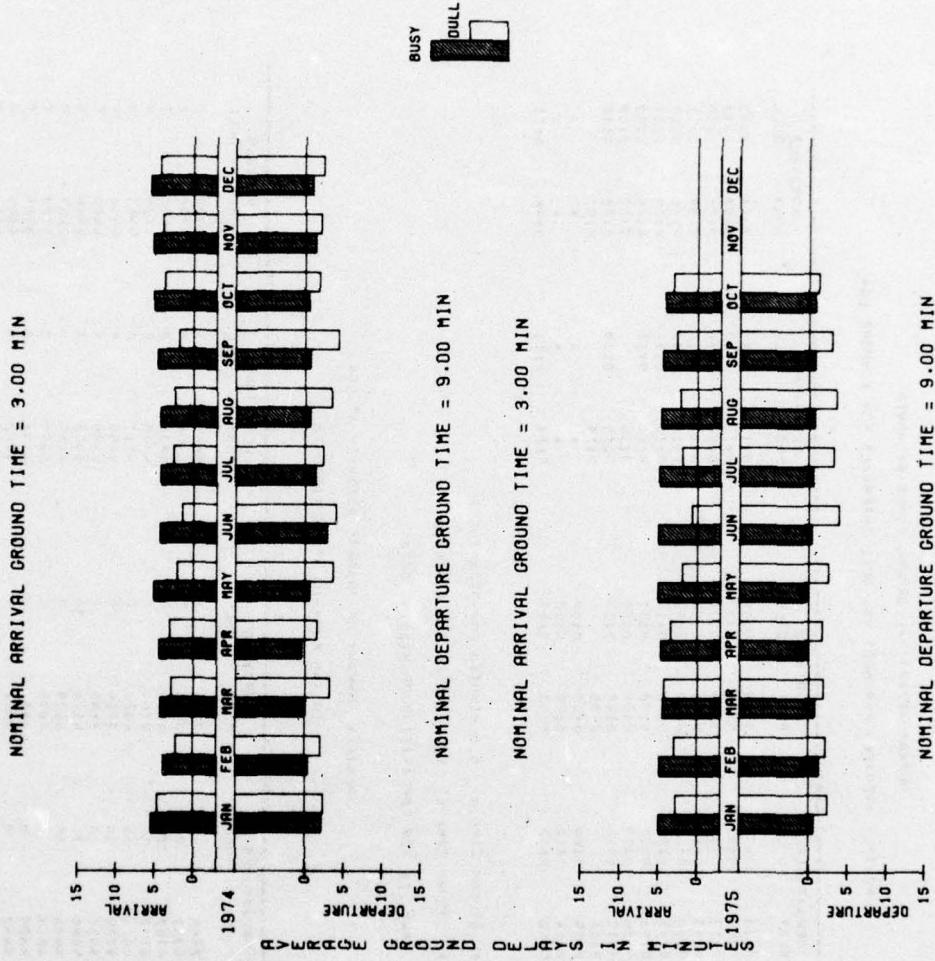


TABLE III-2-11

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR RUSTY VS. DULL INTERVALS FOR AIRPORT LGA

		1974				1975			
		DEPARTURES		ARRIVALS		DEPARTURES		ARRIVALS	
		RUSTY	DULL	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
JAN	0113	0110	0109	0110	0114	0111	0106	0111	0111
FEB	0114	0111	0108	0110	0114	0112	0108	0111	0111
MAR	0113	0111	0108	0110	0113	0110	0108	0110	0110
APR	0113	0110	0108	0110	0113	0110	0108	0111	0111
MAY	0114	0111	0109	0109	0114	0109	0110	0110	0110
JUN	0115	0111	0108	0113	0116	0111	0109	0109	0109
JUL	0116	0111	0108	0111	0116	0111	0108	0109	0109
AUG	0116	0115	0108	0106	0115	0111	0108	0108	0108
SEP	0117	0116	0108	0113	0115	0109	0108	0110	0110
OCT	0116	0110	0108	0114	0114	0107	0107	*	*
NOV	0115	0108	0109	0109	*	*	*	*	*
DEC	0114	0112	0109	0110	*	*	*	*	*
TOTAL	0115	0112	0108	0107	0114	0111	0108	0111	0111

MINIMUM GROUND TIME = 0.0 MINUTES FOR DEPARTURES

MINIMUM GROUND TIME = 0.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT LGA
IN AND FROM 19 STUDY AIRPORTS

		1974				1975			
		DEPARTURES		ARRIVALS		DEPARTURES		ARRIVALS	
		RUSTY	DULL	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
JAN	2648	0	2926	0	4660	1	4500	0	
FEB	4570	2A	4353	0	4508	0	4220	4	
MAR	4767	51	4720	0	4800	1	4621	1	
APR	4792	30	4763	0	4766	0	4529	4	
MAY	4014	54	4024	0	5115	0	4554	0	
JUN	3769	34	3619	0	4495	0			
JUL	3511	0	3195	0	4389	0	4400	0	
AUG	5080	31	5114	30	4948	0	4946	0	
SEP	4608	50	4679	4	4635	0	4647	0	
OCT	4813	0	4878	0	4670	0	4707	0	
NOV	4629	4	4627	0	4692	0	4944	0	
DEC	4452	0	4362	0	4222	0	4105	0	
TOTAL	51553	224	51260	5A	55960	1	55406	0	

FIGURE II - 2 - 11
L GA

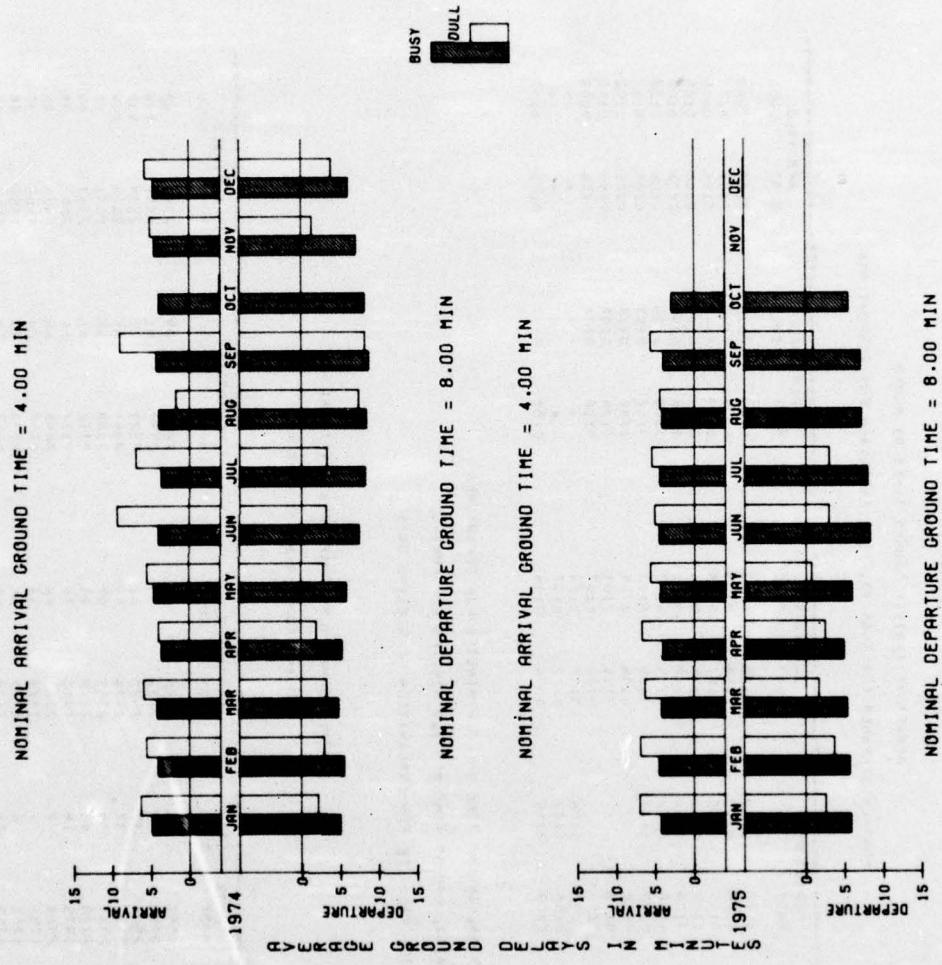


TABLE II-2-12

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR HUSTY VS. DULL INTERVALS FOR AIRPORT MIA

	DEPARTURES 1974		ARRIVALS 1974		DEPARTURES 1975		ARRIVALS 1975	
	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
JAN	0:110	0:110	0:08	0:03	0:109	0:113	0:107	0:105
FEB	0:109	0:110	0:08	0:03	0:109	0:107	0:107	0:103
MAR	0:110	0:110	0:07	0:03	0:109	0:107	0:106	0:105
APR	0:110	0:111	0:07	0:03	0:109	0:106	0:106	0:105
MAY	0:109	0:110	0:07	0:03	0:109	0:106	0:106	0:105
JUN	0:108	0:112	0:05	0:02	0:108	0:107	0:106	0:102
JUL	0:108	0:110	0:05	0:02	0:108	0:106	0:106	0:102
AUG	0:108	0:110	0:06	0:04	0:108	0:107	0:105	0:102
SEP	0:108	0:108	0:06	0:05	0:108	0:107	0:107	0:106
OCT	0:108	0:108	0:06	0:05	0:108	0:106	0:105	0:103
NOV	0:108	0:106	0:07	0:04	0:108	0:106	0:104	0:104
DEC	0:108	0:107	0:07	0:07	0:108	0:106	0:106	0:104
TOTAL	0:109	0:110	0:06	0:04	0:108	0:107	0:106	0:103

NOMINAL GROUND TIME = 7.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 2.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT MIA
TO AND FROM 19 STUDY AIRPORTS

	DEPARTURES 1974		ARRIVALS 1974		DEPARTURES 1975		ARRIVALS 1975	
	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
IAN	1451	26	1466	37	2253	29	2267	62
FEB	2258	34	2232	55	2357	61	2346	122
MAR	2548	37	2523	62	2521	71	2634	136
APR	2416	37	2426	59	2364	65	2474	114
MAY	2361	39	2355	97	2388	65	2411	96
JUN	2224	40	2202	93	2312	61	2367	94
JUL	1975	18	1967	74	2377	66	2407	96
AUG	2068	0	2123	62	2444	66	2416	95
SEP	1756	0	1673	33	1706	29	1668	57
OCT	1745	0	1625	51	1603	36	1552	34
NOV	1795	33	1649	61	1612	32	1610	28
DEC	1656	14	1714	45	1647	16	1725	30
TOTAL	24373	278	24675	711	26046	591	26180	quad

FIGURE II-2-12
MIA

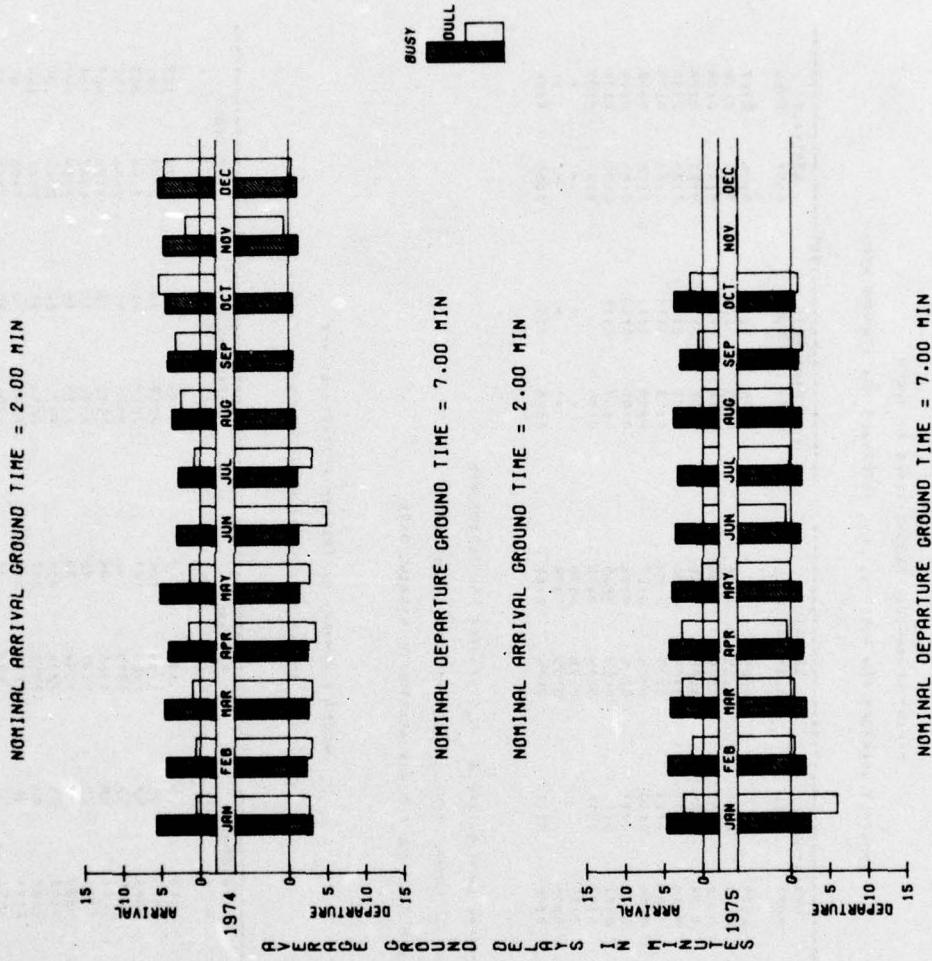


TABLE II-2-13

DEPARTURE/ARRIVAL GROUND TIMES AT MINTON
MONTHLY AVERAGES FROM HUSTY VS. NULL INTERVALS FROM AIRPORT MSP

		1974			1975		
DEPARTURES		ARRIVALS		DEPARTURES		ARRIVALS	
	HUSTY	NULL	HUSTY	NULL	HUSTY	NULL	HUSTY
JAN	0:105	0:105	0:105	0:105	0:09	0:114	0:06
FEB	0:109	0:107	0:105	0:105	0:09	0:108	0:05
MAR	0:108	0:107	0:105	0:105	0:10	0:109	0:05
APR	0:104	0:104	0:106	0:106	0:106	0:116	0:05
MAY	0:110	0:117	0:116	0:116	0:107	0:110	0:05
JUN	0:109	0:113	0:105	0:104	0:109	0:110	0:05
JUL	0:106	0:110	0:105	0:107	0:109	0:111	0:06
AUG	0:108	0:111	0:105	0:106	0:107	0:112	0:05
SEP	0:107	0:110	0:105	0:105	0:109	0:110	0:05
OCT	0:107	0:110	0:105	0:104	0:105	0:104	0:05
NOV	0:105	0:105	0:105	0:106	*	*	*
DEC	0:106	0:105	0:104	0:104	*	*	*
TOTAL	0:106	0:110	0:105	0:106	0:108	0:111	0:05

MONTHLY GROUND TIME = 5.0 MINUTES FOR DEPARTURES

MONTHLY GROUND TIME = 2.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT MSP
IN AND FROM 19 STUNY AIRPORTS

		1974			1975		
DEPARTURES		ARRIVALS		DEPARTURES		ARRIVALS	
	HUSTY	NULL	HUSTY	NULL	HUSTY	NULL	HUSTY
JAN	140	0	174	0	1930	50	1978
FEB	1876	48	1764	124	2018	40	2008
MAR	2083	52	1981	107	2219	44	2199
APR	2065	52	1874	46	2048	40	2048
MAY	1524	52	1465	44	2172	46	2120
JUN	1301	20	1131	76	2042	30	1967
JUL	1339	20	1152	72	2071	50	2019
AUG	2550	41	2296	216	2076	24	2015
SEP	2142	44	2057	207	2034	30	2004
OCT	2173	54	2136	214	1035	0	1006
NOV	501	0	585	20	206	20	1997
DEC	503	0	601	16	1852	31	1935
TOTAL	16101	345	17163	1252	25533	594	25335

FIGURE 11-2-13
MSP

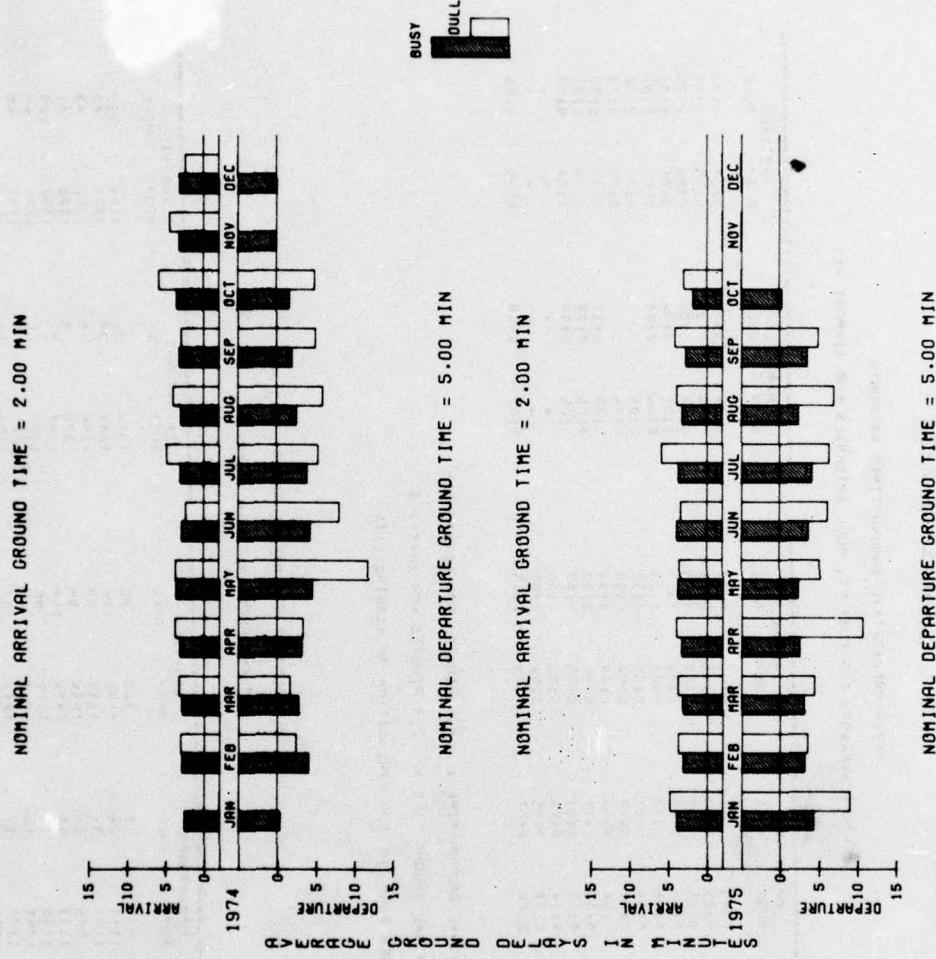


TABLE II-2-14

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR BUSY VS. DULL INTERVALS FOR AIRPORT MAY

	1974			1975		
	ARRIVALS		DEPARTURES	ARRIVALS		DEPARTURES
	BUSY	DULL	BUSY	DULL	BUSY	DULL
JAN	0:05		0:04	0:07	0:04	0:09
FEB	0:05	0:07	0:05	0:06	0:04	0:05
MAR	0:05	0:07	0:05	0:06	0:04	0:05
APR	0:06	0:05	0:04	0:05	0:05	0:05
MAY	0:06	0:06	0:06	0:05	0:06	0:05
JUN	0:04	0:11	0:05	0:03	0:06	0:10
JUL	0:04	0:09	0:04	0:04	0:06	0:05
AUG	0:04	0:04	0:04	0:04	0:10	0:04
SEP	0:03	0:11	0:04	0:02	0:05	0:04
OCT	0:03	0:10	0:05	0:07	0:05	0:04
NOV	0:04	0:04	0:05	0:04	0:06	0:02
DEC	0:03	0:05	0:06	0:05	*	*
TOTAL	0:04	0:07	0:05	0:05	0:09	0:05

UNIFORM GROUND TIME = 4.0 MINUTES FOR DEPARTURES

UNIFORM GROUND TIME = 2.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

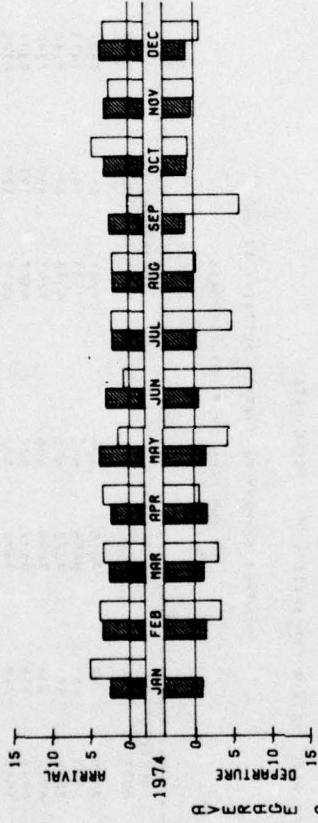
MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT MAY
TO AND FROM 19 STUDY AIRPORTS

	1974			1975		
	ARRIVALS		DEPARTURES	ARRIVALS		DEPARTURES
	BUSY	DULL	BUSY	RUSHY	DULL	RUSHY
JAN	610	0	587	40	1258	26
FEB	1119	26	1124	112	1241	25
MAR	1103	31	1157	42	1396	5
APR	985	30	1036	54	1324	3
MAY	1313	59	1324	114	1357	50
JUN	1130	30	1219	89	1304	0
JUL	1053	14	1138	45	1221	0
AUG	1227	31	1252	107	1355	50
SEP	996	29	975	102	1011	34
OCT	1010	50	1052	104	1066	65
NOV	1274	41	1218	107	1074	59
DEC	1134	14	1116	105	1226	99
TOTAL	12943	535	13156	1111	14679	277
						1613

FIGURE II-2-14

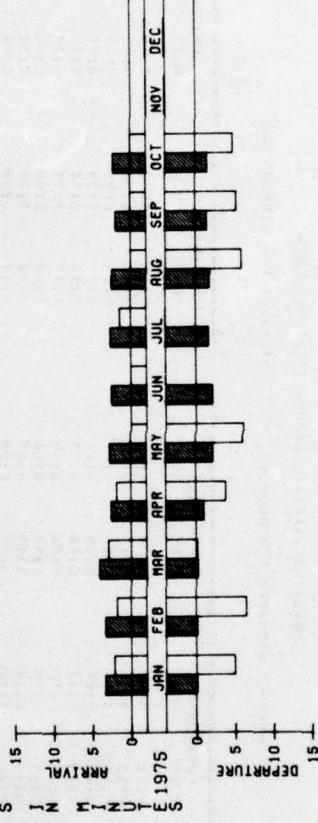
MSY

NOMINAL ARRIVAL GROUND TIME = 2.00 MIN



NOMINAL DEPARTURE GROUND TIME = 4.00 MIN

NOMINAL ARRIVAL GROUND TIME = 2.00 MIN



NOMINAL DEPARTURE GROUND TIME = 4.00 MIN

TABLE II-2-15

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY ARRIVALS FOR BUSY VS. DULL INTERVALS FOR AIRPORT ORD

		1974		1975	
DEPARTURES		ARRIVALS		ARRIVALS	
	DULL	BUSY	DULL	BUSY	DULL
JAN	0:113	0:111	0:109	0:113	0:109
FEB	0:113	0:111	0:108	0:110	0:108
MAR	0:114	0:110	0:110	0:109	0:108
APR	0:114	0:109	0:109	0:113	0:110
MAY	0:115	0:110	0:108	0:114	0:109
JUN	0:115	0:108	0:108	0:113	0:108
JUL	0:116	0:112	0:110	0:114	0:109
AUG	0:120	0:112	0:110	0:114	0:109
SEP	0:116	0:108	0:110	0:114	0:117
OCT	0:113	0:108	0:109	*	*
NOV	0:113	0:107	0:110	*	*
DEC	0:115	0:110	0:110	0:114	0:109
TOTAL	0:115		0:109	0:109	0:107

NOMINAL GROUND TIME = 9.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 5.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT (ORD)
TEN AND FROM 19 STUDY AIRPORTS

		1974		1975	
DEPARTURES		ARRIVALS		ARRIVALS	
	DULL	BUSY	DULL	BUSY	DULL
JAN	2100	99	2215	126	7261
FEB	6793	460	6656	633	7543
MAR	7288	501	7388	691	8030
APR	6917	435	7098	646	7197
MAY	6402	316	4322	420	6387
JUN	3584	268	3690	302	6979
JUL	3590	240	3705	287	6988
AUG	4004	751	4950	809	8777
SEP	7637	654	7737	757	7400
OCT	7514	683	7706	796	6460
NOV	7104	347	7177	655	6056
DEC	6428	349	6913	622	6607
TOTAL	72374	5087	74555	8460	84674

FIGURE II - 2-15
ORD

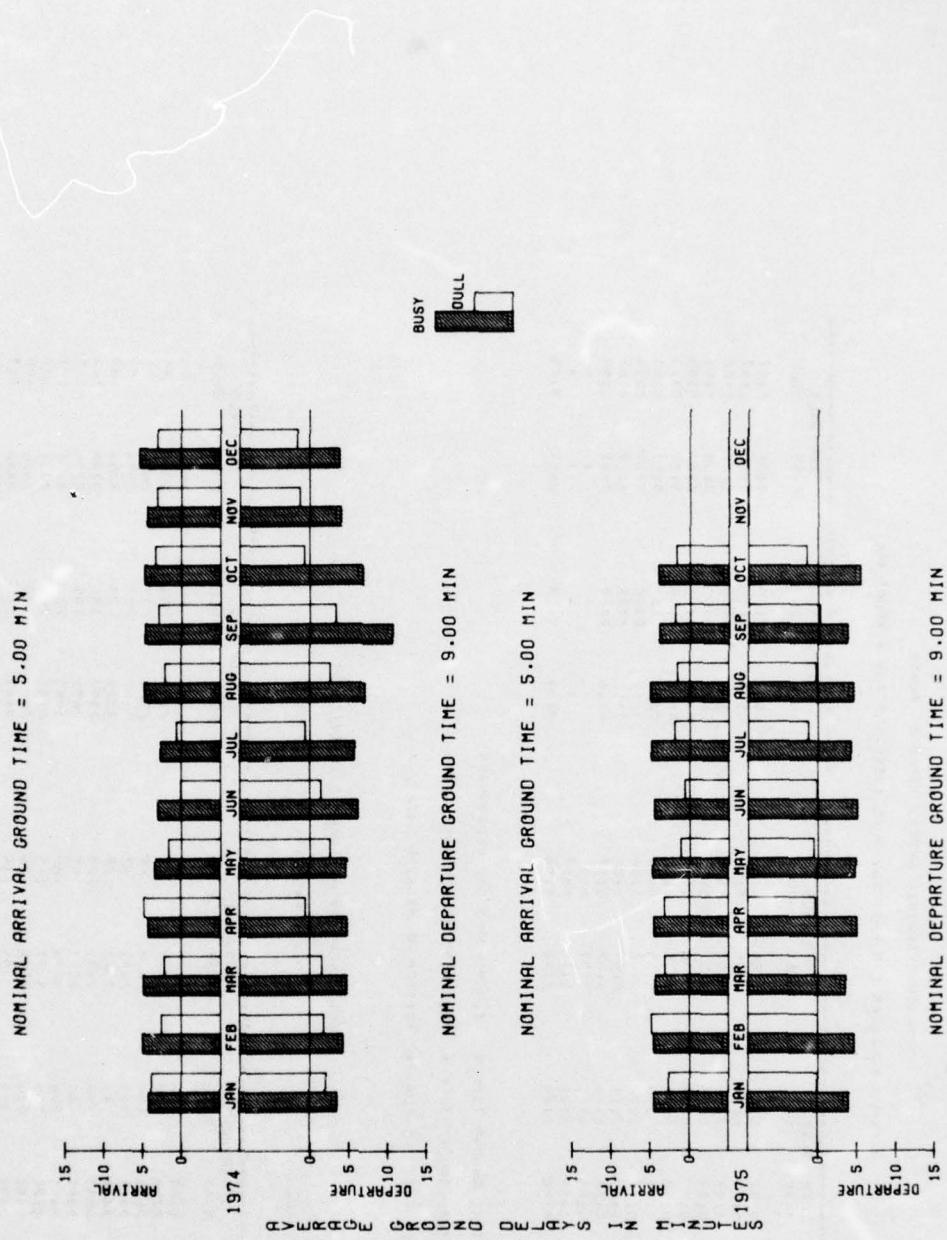


TABLE II-2-16

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR HUSSY VS. DULL INTERVALS FOR AIRPORT PHL

		1974				1975			
		ARRIVALS		DEPARTURES		ARRIVALS		DEPARTURES	
		HUSSY	DULL	HUSSY	DULL	HUSSY	DULL	HUSSY	DULL
JAN	0:107	0:108	0:106	0:107	0:109	0:109	0:109	0:107	0:107
FEB	0:109	0:109	0:108	0:105	0:107	0:109	0:107	0:107	0:107
MAR	0:108	0:108	0:107	0:107	0:105	0:108	0:107	0:108	0:105
APR	0:108	0:107	0:107	0:108	0:104	0:109	0:108	0:107	0:105
MAY	0:107	0:109	0:106	0:106	0:105	0:103	0:110	0:109	0:107
JUN	0:108	0:109	0:110	0:105	0:106	0:110	0:110	0:107	0:105
JUL	0:109	0:110	0:110	0:107	0:106	0:110	0:110	0:107	0:105
AUG	0:111	0:110	0:111	0:107	0:106	0:110	0:110	0:107	0:105
SEP	0:110	0:111	0:110	0:107	0:107	0:110	0:110	0:107	0:105
OCT	0:108	0:108	0:107	0:107	0:106	0:109	0:109	0:106	0:106
NOV	0:108	0:107	0:107	0:106	0:107	*	*	*	*
DEC	0:107	0:108	0:106	0:107	0:106	*	*	*	*
TOTAL	0:109	0:109	0:106	0:106	0:109	0:108	0:108	0:107	0:105

NOMINAL GROUND TIME = 7.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 2.0 MINUTES FOR ARRIVALS

• SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT PHL
TO AND FROM 10 STUDY AIRPORTS

		1974				1975			
		ARRIVALS		DEPARTURES		ARRIVALS		DEPARTURES	
		HUSSY	DULL	HUSSY	DULL	HUSSY	DULL	HUSSY	DULL
JAN	1180	37	1142	65	3037	185	2946	99	99
FEB	2703	139	2715	83	2754	254	2844	94	94
MAR	2603	164	2644	69	2525	238	2640	91	91
APR	2601	103	2401	62	2367	207	2573	87	87
MAY	2519	84	2541	128	3074	1104	3104	149	149
JUN	2057	80	2101	123	2704	194	2734	144	144
JUL	1997	82	2017	97	2670	193	2754	144	144
AUG	1951	266	549	140	3089	284	3121	127	127
SEP	3125	194	3027	163	2730	202	2701	101	101
OCT	3195	205	2948	174	2441	174	2440	102	102
NOV	2691	200	2895	135	2483	176	2444	117	117
DEC	2924	181	2746	128	2435	108	2375	74	74
TOTAL	30445	1715	30601	1407	32707	2477	33312	13357	13357

FIGURE II - 2-16
PHL

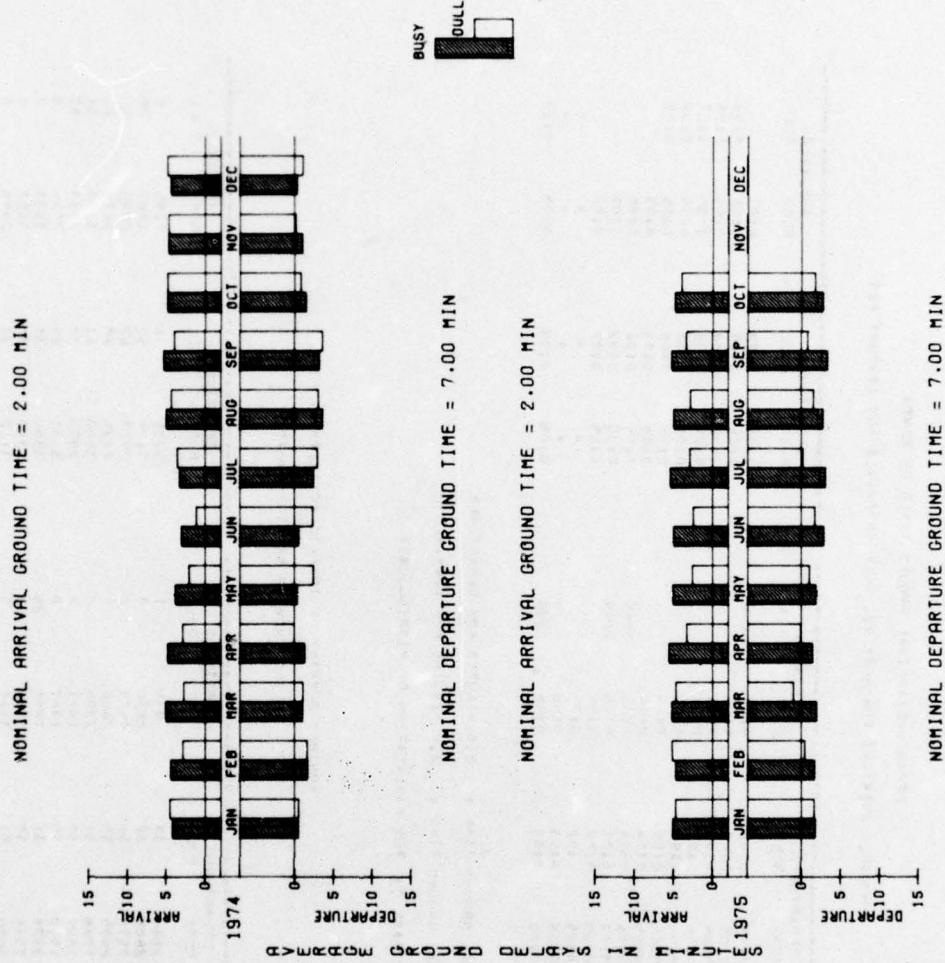


TABLE III-2-17

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR HUSTY VS. DULL INTERVALS FOR AIRPORT PTT

		1974				1975			
		ARRIVALS		ARRIVALS		ARRIVALS		ARRIVALS	
		HUSTY	DULL	HUSTY	DULL	HUSTY	DULL	HUSTY	DULL
JAN	0:03	0:02	0:04	0:02	0:02	0:05	0:02	0:05	0:02
FEB	0:05	0:02	0:05	0:05	0:05	0:03	0:05	0:05	0:02
MAR	0:03	0:03	0:05	0:05	0:05	0:05	0:04	0:05	0:05
APR	0:05	0:05	0:05	0:05	0:05	0:05	0:03	0:05	0:03
MAY	0:04	0:05	0:04	0:04	0:04	0:04	0:04	0:05	0:04
JUN	0:05	0:05	0:04	0:04	0:04	0:05	0:05	0:05	0:05
JUL	0:06	0:04	0:04	0:05	0:05	0:06	0:03	0:05	0:04
AUG	0:06	0:03	0:05	0:05	0:05	0:05	0:04	0:05	0:05
SEP	0:07	0:03	0:05	0:04	0:05	0:05	0:02	0:04	0:04
OCT	0:05	0:02	0:05	0:05	0:05	0:02	0:04	0:04	0:04
NOV	0:05	0:02	0:05	0:05	0:05	0:02	*	*	*
DEC	0:05	0:03	0:06	0:06	0:06	0:05	*	*	*
TOTAL	0:05	0:03	0:05	0:04	0:05	0:04	0:05	0:04	0:04

NORMAL GROUND TIME = 2.0 MINUTES FOR DEPARTURES

NORMAL GROUND TIME = 2.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT PTT
TII AND FROM 10 STUDY AIRPORTS

		1974				1975			
		ARRIVALS		ARRIVALS		ARRIVALS		ARRIVALS	
		HUSTY	DULL	HUSTY	DULL	HUSTY	DULL	HUSTY	DULL
JAN	1144	32	435	1	3235	4	3295	0	
FEB	2408	27	2470	0	2424	55	3063	26	
MAR	2530	31	2573	0	2927	62	2440	31	
APR	2625	30	2406	0	2734	24	2675	24	
MAY	1946	31	2005	0	3107	61	3391	31	
JUN	1427	50	1901	0	2073	31	2831	12	
JUL	1460	30	1987	0	2041	29	2448	0	
AUG	3878	31	3444	26	3560	31	3431	0	
SEP	3548	30	3554	6	3447	30	3187	0	
OCT	3664	31	3660	0	3112	31	2979	0	
NOV	3240	27	3507	0	3293	27	3295	0	
DEC	3181	28	3240	0	2858	25	2499	0	
TOTAL	32042	35	32342	35	37710	415	36780	128	

FIGURE II-2-17
PIT

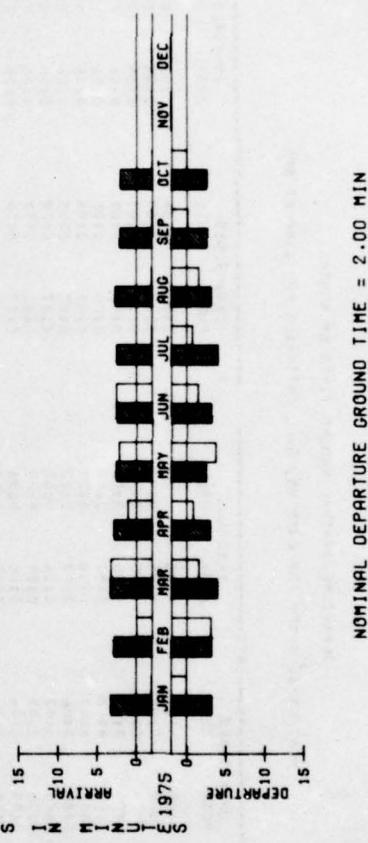
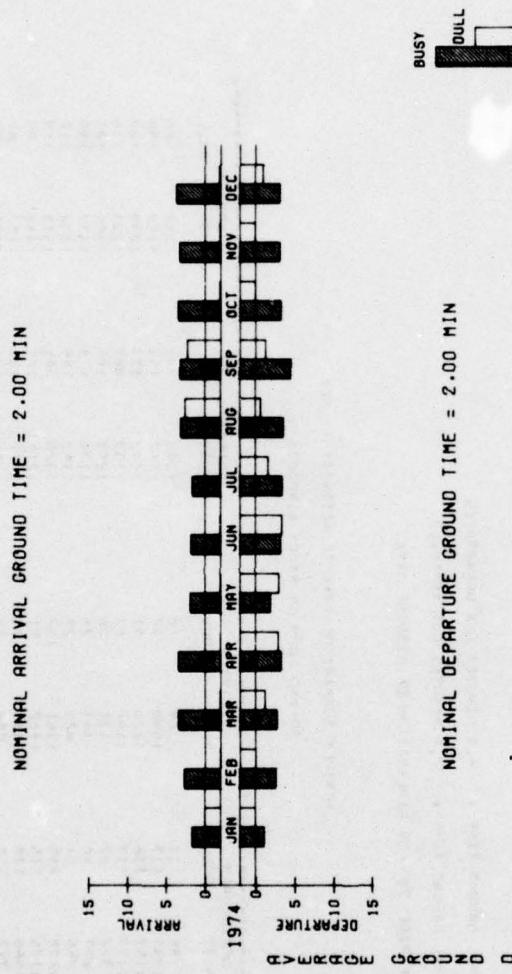


TABLE II-2-18

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGE(S) FOR BUSY VS. DULL INTERVALS FROM AIRPORT SFA

	1974		1975		1976	
	DEPARTURES BUSY	DEPARTURES DULL	ARRIVALS BUSY	ARRIVALS DULL	ARRIVALS BUSY	ARRIVALS DULL
JAN	0:05	0:07	0:08	0:03	0:07	0:04
FEB	0:07	0:07	0:05	0:03	0:07	0:04
MAR	0:06	0:07	0:05	0:04	0:07	0:05
APR	0:06	0:05	0:05	0:04	0:06	0:04
MAY	0:08	0:08	0:07	0:07	0:08	0:06
JUN	0:10	0:07	0:06	0:06	0:07	0:05
JUL	0:09	0:06	0:07	0:10	0:08	0:02
AUG	0:08	0:07	0:06	0:12	0:06	0:03
SEP	0:06	0:07	0:05	0:04	0:07	0:05
OCT	0:07	0:06	0:06	0:06	0:07	0:05
NOV	0:06	0:06	0:05	0:03	*	*
DEC	0:07	0:07	0:05	0:03	*	*
TOTAL	0:07	0:07	0:05	0:05	0:07	0:04

MONTHLY GROUND TIME = 6.0 MINUTES FOR DEPARTURES

MONTHLY GROUND TIME = 2.0 MINUTES FOR ARRIVALS

* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT SFA
TO AND FROM 19 STUDY AIRPORTS

	1974		1975		1976	
	DEPARTURES BUSY	DEPARTURES DULL	ARRIVALS BUSY	ARRIVALS DULL	ARRIVALS BUSY	ARRIVALS DULL
JAN	99	31	69	0	1195	146
FEB	1081	117	1090	77	1067	155
MAR	1157	136	1220	91	1172	173
APR	1109	118	1164	87	1132	165
MAY	312	62	451	26	1253	144
JUN	247	60	393	26	1174	178
JUL	256	61	423	23	1184	185
AUG	1408	205	1561	102	1320	1511
SEP	1175	175	1412	91	1211	1314
OCT	1166	178	1369	99	1122	154
NOV	742	130	889	35	1186	1180
DEC	742	130	877	33	1271	196
TOTAL	9354	1412	10927	690	13803	15379

FIGURE III-2-18
SEA

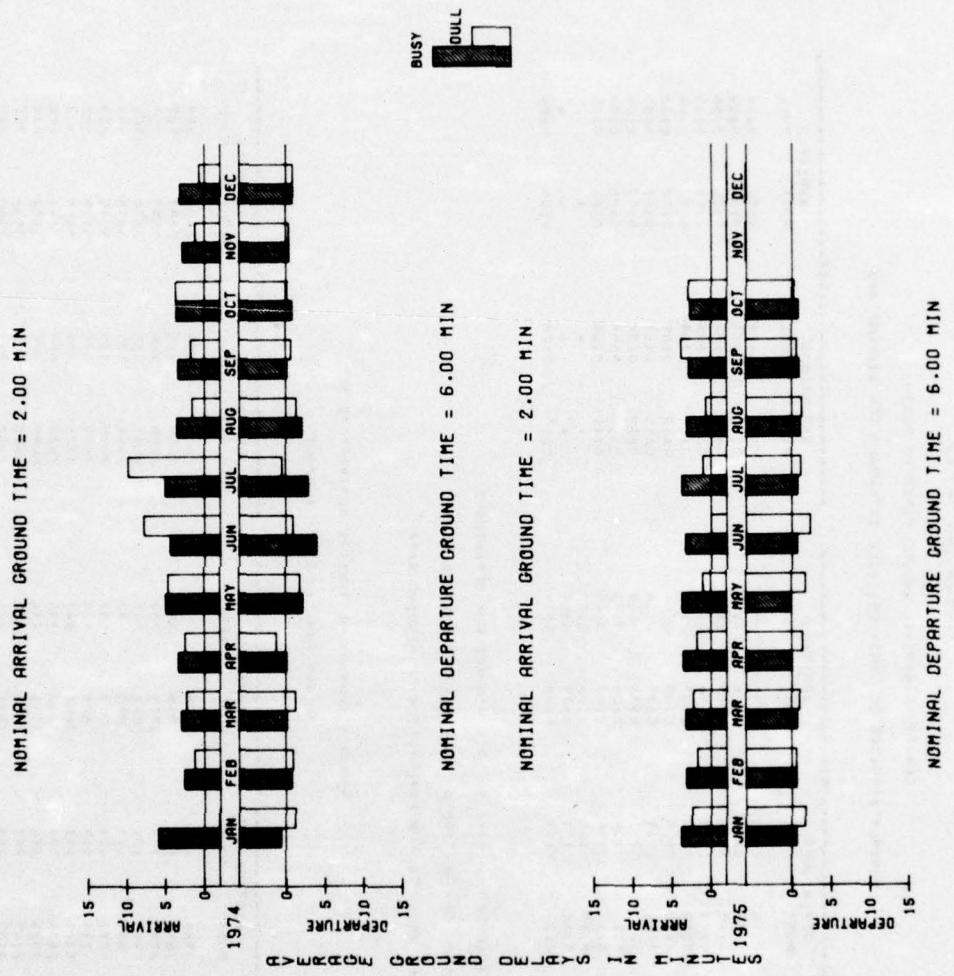


TABLE II-2-19

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR RUSTY VS. DULL INTERVALS FOR AIRPORT SFO

DEPARTURES		ARRIVALS		DEPARTURES		ARRIVALS		
	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
JAN	0:115	0:113	0:108	0:104	0:09	0:08	0:06	0:04
FEB	0:109	0:106	0:106	0:103	0:110	0:106	0:104	0:104
MAR	0:109	0:108	0:106	0:103	0:110	0:106	0:106	0:106
APR	0:109	0:107	0:106	0:104	0:109	0:106	0:105	0:105
MAY	0:110	0:110	0:107	0:104	0:110	0:106	0:104	0:104
JUN	0:110	0:111	0:105	0:104	0:110	0:109	0:103	0:103
JUL	0:111	0:111	0:107	0:106	0:111	0:110	0:107	0:105
AUG	0:113	0:110	0:106	0:104	0:110	0:109	0:107	0:104
SEP	0:111	0:109	0:106	0:103	0:110	0:109	0:107	0:104
OCT	0:110	0:108	0:107	0:105	0:110	0:108	0:106	0:105
NOV	0:110	0:109	0:106	0:105	0:110	0:108	0:105	0:105
DEC	0:110	0:110	0:107	0:105	0:110	0:108	0:106	0:105
TOTAL	0:110	0:109	0:106	0:104	0:110	0:109	0:106	0:104

MONTHLY GROUND TIME = 0.0 MINUTES FOR DEPARTURES

MONTHLY GROUND TIME = 3.0 MINUTES FOR ARRIVALS

SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT SFO
TO AND FROM 19 STONY AIRPORTS

DEPARTURES		ARRIVALS		DEPARTURES		ARRIVALS		
	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL	RUSTY	DULL
IAN	346	53	508	7	2409	373	2476	294
FFR	2419	537	2449	299	2600	415	2747	127
WAD	2707	107	3013	284	2799	465	3007	310
APD	2550	324	2467	284	2593	418	2474	306
ANS	117	983	92	295	375	5274	299	
MAY	772	114	913	102	2599	355	3045	243
JUN	754	117	851	104	2609	346	3114	102
AUG	3361	447	5662	467	3525	466	3665	402
SEP	2976	508	5142	515	2424	4104	2944	274
OCT	2924	546	5111	534	2649	406	3002	352
NOV	2165	294	2406	265	2811	346	3134	266
DEC	2142	269	2351	276	2240	291	2469	266
TOTAL	24127	3209	26476	2810	32454	4653	36347	3713

FIGURE II - 2-19
SFO

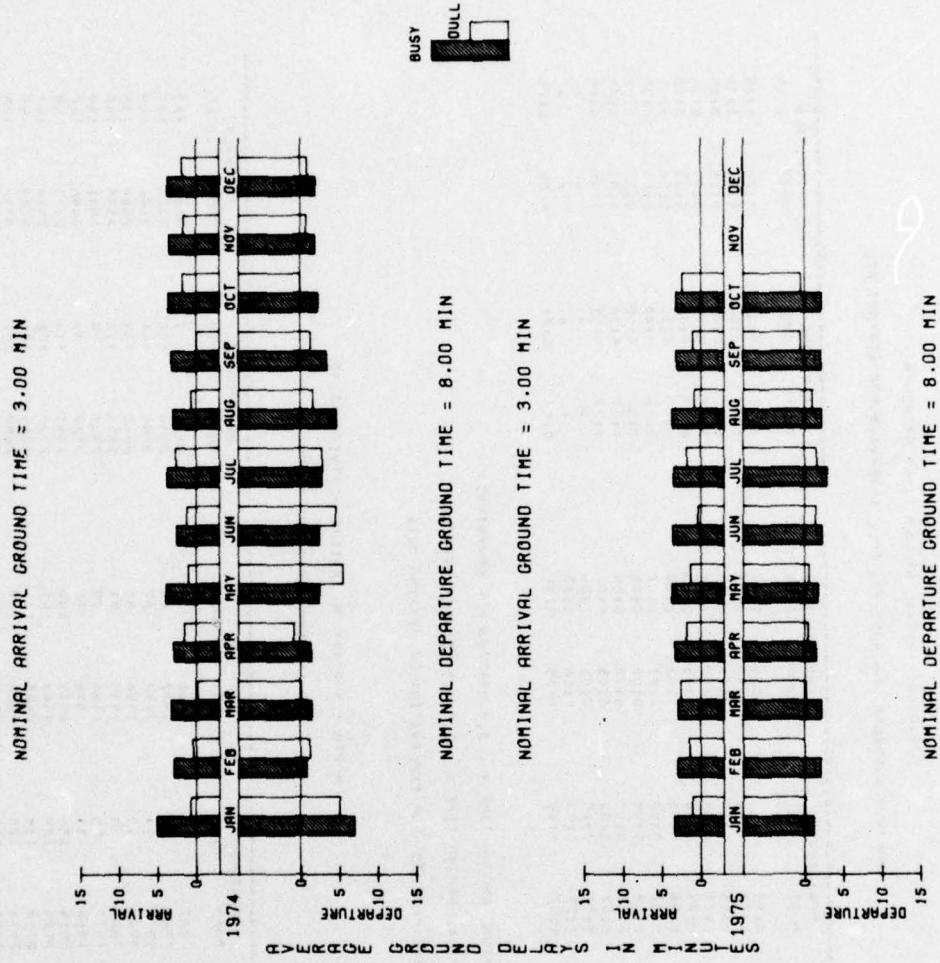


TABLE II-2-20

DEPARTURE/ARRIVAL GROUND TIMES BY MONTH
MONTHLY AVERAGES FOR RUSH VS. DULL INTERVALS FOR AIRPORT STL

DEPARTURES - 1974			ARRIVALS - 1974			DEPARTURES - 1975			ARRIVALS - 1975		
	RUSHY	DULL		RUSHY	DULL		RUSHY	DULL		RUSHY	DULL
JAN	0108	0106	0107	0105	0105	0107	0107	0107	0105	0105	0105
FEB	0107	0106	0105	0105	0106	0107	0107	0106	0106	0106	0106
MAR	0108	0106	0106	0106	0106	0107	0107	0106	0105	0105	0105
APR	0107	0106	0105	0105	0106	0107	0107	0106	0105	0105	0106
MAY	0105	0104	0105	0103	0104	0107	0107	0106	0105	0105	0105
JUN	0106	0105	0104	0103	0104	0110	0110	0109	0108	0108	0104
JUL	0107	0102	0103	0102	0103	0106	0106	0106	0104	0104	0105
AUG	0109	0105	0106	0106	0106	0107	0107	0106	0105	0105	0106
SEP	0108	0107	0106	0106	0106	0107	0107	0106	0104	0104	0105
OCT	0107	0104	0105	0105	0106	0107	0107	0106	0105	0105	0105
NOV	0107	0105	0106	0106	0106	*	*	*	*	*	*
DEC	0107	0107	0106	0107	0107	*	*	*	*	*	*
TOTAL	0107	0105	0105	0106	0107	0107	0107	0105	0105	0105	0105

NOMINAL GROUND TIME = 3.0 MINUTES FOR DEPARTURES

NOMINAL GROUND TIME = 2.0 MINUTES FOR ARRIVALS

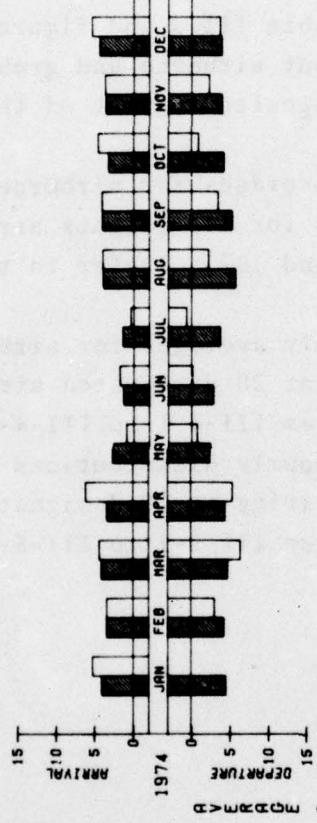
* SEE PAGE 78 FOR EXPLANATION OF MISSING DATA

MONTHLY SUMMARY OF TRAFFIC ACTIVITY AT STL
TEN AND FIFTEEN STUDY AIRPORTS

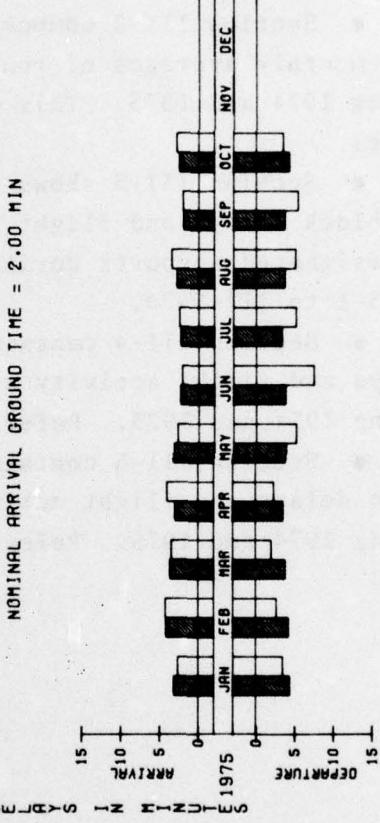
DEPARTURES - 1974			ARRIVALS - 1974			DEPARTURES - 1975			ARRIVALS - 1975		
	RUSHY	DULL		RUSHY	DULL		RUSHY	DULL		RUSHY	DULL
JAN	647	0	646	49	2624	77	2540	160		2540	160
FEB	144	44	1922	84	2334	150	2476	170		2476	170
MAR	197	17	2042	87	2799	164	2666	169		2666	169
APR	1942	19	1996	85	2662	139	2504	136		2504	136
MAY	1646	74	1535	81	2843	114	2835	150		2835	150
JUN	1479	55	1564	79	2367	79	2531	149		2531	149
JUL	1464	51	1344	58	2129	84	2409	162		2409	162
AUG	2914	136	2851	190	2053	114	2973	158		2973	158
SEP	2675	120	2540	161	2720	106	2548	149		2548	149
OCT	2764	138	2593	146	2715	108	2583	155		2583	155
NOV	2471	120	2606	139	2649	104	2712	148		2712	148
DEC	2349	105	2245	139	2661	80	2740	155		2740	155
TOTAL	26417	872	25744	1298	31940	1323	31740	1861		31740	1861

FIGURE II-2-20
STL

NOMINAL ARRIVAL GROUND TIME = 2.00 MIN



NOMINAL DEPARTURE GROUND TIME = 3.00 MIN



NOMINAL DEPARTURE GROUND TIME = 3.00 MIN

CHAPTER III. ROUTE SEGMENT DELAYS AND TREND COMPARISONS, AIRBORNE AND GROUND

Chapter III is made up of five parts:

- Section III-1 is composed of two tables showing average yearly air and ground times and delays for 1974 and 1975. Table III-1-1 shows the averages for all route segments; Table III-1-2 shows the averages for the top 50 routes.
- Section III-2 composed of table III-2 and figure III-2 show monthly averages of route segment airborne and ground delays during 1974 and 1975. This is a composite segment of the top 50 routes.
- Section III-3 shows annual averages for airborne, ground, and block delays and flight activity for all flights arriving at 20 designated airports during 1974 and 1975. Refer to tables III-3-1 to III-3-20.
- Section III-4 contains monthly averages for airborne delays and flight activity arriving at 20 designated airports during 1974 and 1975. Refer to tables III-4-1 to III-4-20.
- Section III-5 contains the hourly distributions of airborne delays and flight activity arriving at 20 designated airports during 1974 and 1975. Refer to tables III-5-1 to III-5-20.

TABLE III-1-1
AVERAGE YEARLY AIR AND GROUND
TIMES AND DELAYS
ALL PRIMTF SEGMENTS

FROM	TO	FLIGHTS	Avg	Avg	Avg	Avg	FLIGHTS	Avg	Avg	Avg	Avg
			AIR Tmt	AIR Del.	GND Tmt	GND Del.		AIR Tmt	AIR Del.	GND Tmt	GND Del.
ATL	BOS	1367	1:57	0:07	0:20	0:10	1424	1:57	0:07	0:18	0:04
ATL	CLE	1128	1:18	0:05	0:16	0:05	1431	1:16	0:05	0:17	0:06
ATL	DCA	4024	1:14	0:06	0:17	0:06	4339	1:15	0:06	0:16	0:05
ATL	DFW	3539	1:42	0:07	0:17	0:06	4154	1:45	0:08	0:16	0:05
ATL	DTW	1357	1:20	0:02	0:19	0:08	1121	1:19	0:01	0:19	0:08
ATL	FLL	2499	1:57	0:10	0:18	0:06	2411	1:55	0:04	0:18	0:06
ATL	JFK	2167	1:40	0:14	0:19	0:04	2295	1:59	0:13	0:20	0:05
ATL	LAX	2577	4:07	0:51	0:17	0:06	2443	4:07	0:31	0:26	0:09
ATL	LGA	5763	1:41	0:09	0:17	0:05	4203	1:36	0:07	0:17	0:05
ATL	MIA	4745	1:20	0:05	0:18	0:04	5199	1:26	0:08	0:17	0:07
ATL	MSB	1619	2:04	0:06	0:14	0:04	2030	2:04	0:05	0:15	0:05
ATL	MSY	3637	1:05	0:06	0:15	0:05	4043	1:04	0:07	0:16	0:05
ATL	PHL	4424	1:35	0:19	0:18	0:05	4488	1:30	0:15	0:19	0:06
ATL	PIT	3636	1:28	0:11	0:17	0:07	4209	1:27	0:10	0:18	0:08
ATL	SFO	498	4:29	0:05	0:17	0:07	2647	4:13	0:03	0:17	0:07
ATL	STL	2715	1:13	0:07	0:15	0:05	661	4:21	0:05	0:21	0:10

TABLE III-1-1 (CONTINUED)

SURFACE TRAIL AIR AND GND TIME
FLIGHTS AND DELAYS
All Right Segments

FROM	TO	FLIGHTS		Ave.		Ave.		FLIGHTS		Ave.		Ave.	
		AIR	DEL	AIR	DEL	GND	DEL	AIR	DEL	GND	DEL	AIR	DEL
HNS ATL		1714	2:17	0:11	0:17	0:04		1790	2:19	0:12	0:17	0:04	
HNS CLF	P43	1:29	0:09	0:14	0:02			1287	1:28	0:10	0:15	0:03	
HNS DCA	659	1:04	0:04	0:15	0:05			6321	1:05	0:04	0:15	0:04	
HNS DTN		556	4:00	0:05	0:16	0:05		1040	3:54	0:02	0:17	0:06	
HNS DFM	392	3:31	-0:04	0:16	0:04			436	3:34	-0:01	0:18	0:06	
HNS DTW		1601	1:55	0:06	0:16	0:04		1427	1:56	0:07	0:15	0:05	
HNS FWR	3086	0:46	0:06	0:17	0:04			5096	0:46	0:06	0:16	0:03	
HNS JFK	2493	0:01	0:12	0:18	0:02			3137	0:40	0:12	0:19	0:03	
HNS LAX	588	5:27	-0:09	0:20	0:04			525	-0:11	0:20	0:08		
HNS LGA	11537	0:42	0:10	0:16	0:03			1111H	0:41	0:09	0:16	0:03	
HNS PIA	1547	2:42	0:10	0:17	0:06			1819	2:42	0:10	0:16	0:05	
HNS PSP	484	2:37	-0:03	0:15	0:04			649	2:37	-0:03	0:16	0:05	
HNS SSF	245	2:59	-0:00	0:16	0:05			354	3:04	0:04	0:16	0:05	
HNS TGN	4105	2:17	0:30	0:21	0:07			4627	2:12	0:25	0:20	0:06	
HNS PHL	6921	0:57	0:15	0:14	0:03			6159	0:55	0:13	0:15	0:04	
HNS P11	1753	1:26	0:05	0:15	0:02			2104	1:17	0:02	0:13	0:02	
HNS SFA	39	5:22	-0:25	0:14	0:03								
HNS STL	465	5:37	-0:10	0:22	0:10			490	5:35	-0:15	0:20	0:06	
HNS STL	454	2:51	0:07	0:17	0:06			1013	2:29	0:05	0:17	0:04	

TABLE III-1-1 (CONTINUED)

AVG/100 YEAPLY AIR AND GROUND
TIMES AND DELAYS
ALL ROUTE SEGMENTS

FLIGHT	TYP	FLIGHTS		AVG		AVG		FLIGHTS		AVG		AVG	
		AIR TWT	AIR TWT	AIR DFL	GND TWT	GND DFL	GND TWT	AIR TWT	AIR TWT	AIR DFL	GND TWT	GND DFL	
C1 F	ATL	1156	1:24	0:05	0:14	0:03	1626	1:27	0:06	0:13	0:02	0:02	
C1 F	HLS	1196	1:15	0:11	0:13	0:04	1329	1:16	0:12	0:14	0:05	0:05	
C1 F	NYC	1954	0:51	0:04	0:12	0:02	2299	0:51	0:03	0:12	0:02	0:02	
C1 F	DFW	427	2:45	0:05	0:14	0:05	656	2:44	0:01	0:14	0:05	0:05	
C1 F	BOS	2:20	0:05	0:14	0:04	0:04	383	2:16	0:01	0:13	0:03	0:03	
C1 F	DFW	2934	0:25	0:04	0:10	-0:00	3806	0:26	0:05	0:09	-0:01	0:03	
C1 F	995	1:00	0:05	0:14	0:03	1400	1:00	0:03	0:14	0:03	0:03	0:03	
C1 F	JFK	654	1:15	0:15	0:17	0:03	1017	1:14	0:14	0:16	0:02	0:02	
C1 F	LAX	1294	4:27	0:01	0:15	0:05	1184	4:25	0:02	0:14	0:04	0:04	
C1 F	LGA	2644	1:06	0:17	0:12	0:01	3458	1:04	0:15	0:12	0:01	0:01	
C1 F	PAK	2:13	-0:05	0:14	0:05	1070	2:19	-0:00	0:14	0:05	0:05	0:05	
C1 F	SP	445	1:51	0:01	0:15	0:04	894	1:51	0:01	0:15	0:04	0:04	
C1 F	SY						35	2:11	-0:06	0:14	0:05	0:05	
C1 F	(R1)	2423	1:04	0:15	0:17	0:05	3504	1:01	0:11	0:18	0:06	0:06	
C1 F	PHL	1530	0:56	0:07	0:16	0:07	1765	0:56	0:07	0:16	0:07	0:07	
C1 F	PIT	2522	0:26	0:10	0:13	0:04	2662	0:25	0:10	0:12	0:03	0:03	
C1 F	SFO	235	4:59	-0:06	0:16	0:06	341	4:40	-0:05	0:14	0:04	0:04	
C1 F	STL	1:56	1:14	0:04	0:12	0:03	2273	1:16	0:10	0:11	0:02	0:02	

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GND TIME

FLIGHTS AND DELAYS

ALL WHITE SEGMENTS

1974

1975

FROM	TO	FLIGHTS		AVG		AVG		FLIGHTS		AVG		AVG	
		AIR TIME	GND TIME	AIR DEL	GND TIME	AIR DEL	GND TIME	AIR TIME	GND TIME	AIR DEL	GND TIME	AIR DEL	GND TIME
DCA	ATL	4905	1:25	0:06	0:13	0:00	0:00	5342	1:26	0:07	0:15	0:02	0:02
DCA	HIS	6425	0:59	0:06	0:14	0:03	0:00	6410	0:59	0:06	0:14	0:05	0:05
DCA	TLF	1721	0:54	0:05	0:15	0:03	0:00	2402	0:55	0:05	0:15	0:03	0:03
DCA	NTW	2096	1:06	0:01	0:14	0:02	0:00	2436	1:07	0:02	0:15	0:05	0:05
DCA	FWD	2708	0:59	0:08	0:15	0:02	0:00	2960	0:59	0:08	0:14	0:01	0:01
DCA	JFK	474	0:43	0:05	0:15	-0:01	0:00	824	0:43	0:04	0:17	0:01	0:01
DCA	LGA	10767	0:44	0:15	0:15	0:02	0:00	16280	0:44	0:12	0:14	0:01	0:01
DCA	NYC	2187	2:04	0:05	0:15	0:04	0:00	2419	2:02	0:04	0:14	0:03	0:03
DCA	MSP	1397	2:11	0:05	0:15	0:04	0:00	1380	2:12	0:07	0:16	0:05	0:05
DCA	NBO	6251	1:44	0:22	0:19	0:05	0:00	8084	1:41	0:10	0:18	0:04	0:04
DCA	PHL	1889	0:51	0:05	0:12	0:01	0:00	1053	0:51	0:06	0:14	0:03	0:03
DCA	PIT	1609	0:39	0:04	0:16	0:05	0:00	2049	0:40	0:04	0:17	0:06	0:06
DCA	SCL	1257	1:46	0:09	0:14	0:03	0:00	2152	1:49	0:10	0:14	0:03	0:03

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

TURNS AND DELAYS

ALL FLIGHT SEGMENTS

FROM	TO	FLIGHTS	Avg Air Time	Avg Air Del	Avg Gnd Tmt	Gnd Del	Avg	Avg Air Time	Avg Air Del	Avg Gnd Tmt	Avg Gnd Del
DEN	BOS	566	3:18	-0:01	0:15	0:10	864	3:16	-0:02	0:16	0:11
DEN	CLE	379	2:19	0:04	0:13	0:07	642	2:14	0:04	0:15	0:07
DEN	DFW	450	1:26	0:03	0:12	0:06	5368	1:26	0:03	0:15	0:07
DEN	DTW	520	2:11	0:06	0:14	0:08	719	2:12	0:07	0:15	0:09
DEN	FNL	464	3:05	0:07	0:17	0:10	652	3:06	0:08	0:16	0:09
DEN	JFK	1131	3:14	0:07	0:19	0:09	1664	3:15	0:08	0:20	0:10
DEN	LAX	3041	1:54	0:04	0:14	0:08	3403	1:54	0:04	0:15	0:09
DEN	MSP	1532	1:26	0:05	0:10	0:05	2594	1:26	0:05	0:11	0:06
DEN	MSY	363	2:05	-0:10	0:10	0:05	284	2:06	-0:09	0:11	0:06
DEN	ORD	502	1:55	0:13	0:15	0:07	6150	1:53	0:12	0:16	0:08
DEN	PHL	433	3:01	0:04	0:16	0:11	429	3:03	0:06	0:18	0:15
DFN	PIT	144	2:36	-0:05	0:17	0:12	187	2:29	-0:12	0:15	0:06
DEN	SFA	1490	2:17	-0:01	0:12	0:07	2153	2:17	-0:01	0:13	0:04
DFN	SFO	1853	2:08	0:04	0:13	0:07	2449	2:08	0:04	0:14	0:05
DEN	STL	2011	1:38	0:04	0:13	0:08	2169	1:38	0:05	0:15	0:08

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND
TIMES AND DELAYS

ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS			AVG			FLIGHTS			AVG		
		AIR TIME	Avg	Avg Del	AIR TIME	Avg	Avg Del	GND TIME	AIR DEL	GND TIME	AIR TIME	Avg	Avg Del
DFW	ATL	3849	1:37	0:10	0:13	0:03		4506	1:36	0:09	0:14	0:14	0:04
DFW	HIS	332	2:59	-0:06	0:19	0:11		342	3:03	-0:02	0:18	0:10	
DFW	CLF	711	2:03	-0:01	0:16	0:09		599	2:03	-0:00	0:15	0:06	
DFW	NFK	4636	1:34	0:03	0:13	0:05		5369	1:35	0:04	0:12	0:04	
DFW	DTW	4048	2:03	0:06	0:16	0:07		1030	2:02	0:05	0:15	0:06	
DFW	FHR	1527	2:43	0:06	0:15	0:05		2410	2:41	0:04	0:15	0:05	
DFW	JFK	1691	2:49	0:12	0:18	0:05		1690	2:49	0:13	0:18	0:05	
DFW	LAX	4211	2:42	0:15	0:15	0:06		4519	2:42	0:15	0:15	0:06	
DFW	LGA	4439	2:46	0:05	0:15	0:05		2738	2:45	0:04	0:14	0:04	
DFW	MIA	1934	2:16	0:05	0:14	0:06		1784	2:16	0:05	0:13	0:05	
DFW	NSP	803	1:52	-0:02	0:13	0:05		969	1:50	-0:03	0:12	0:04	
DFW	PSY	3216	1:00	0:09	0:12	0:04		3927	0:59	0:04	0:12	0:04	
DFW	IHD	6365	1:51	0:16	0:16	0:05		6169	1:48	0:14	0:16	0:05	
DFW	PHL	923	2:35	0:05	0:14	0:10		1145	2:35	0:06	0:17	0:09	
DFW	PIT	696	2:10	0:03	0:16	0:08		498	2:10	0:05	0:17	0:09	
DFW	SLC	732	5:37	-0:10	0:12	0:04		A15	3:56	-0:11	0:12	0:04	
DFW	SFO	3091	3:09	-0:00	0:15	0:06		3225	3:08	-0:01	0:16	0:07	
DFW	STL	1997	1:16	0:05	0:13	0:05		2917	1:17	0:05	0:12	0:04	

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND
TIMES AND DELAYS
ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS	Avg AIR TIME	Avg AIR DEL	Avg GND TIME	GND DEL	FLIGHTS	Avg AIR TIME	Avg AIR DEL	Avg GND TIME	GND DEL
DIA	ATL	1223	1:27	0:08	0:14	0:02	1550	1:27	0:08	0:15	0:05
DIA	MIS	1825	1:20	0:03	0:15	0:05	1566	1:20	0:03	0:13	0:03
DIA	CLE	2689	0:25	0:02	0:09	-0:02	3591	0:25	0:02	0:09	-0:02
DIA	OCA	1985	1:03	0:03	0:13	0:02	2374	1:02	0:03	0:15	0:02
DIA	DEN	516	2:34	0:02	0:16	0:06	721	2:33	0:01	0:14	0:04
DIA	DFW	1188	2:18	0:21	0:14	0:03	813	2:21	0:24	0:15	0:02
DIA	FMR	1344	1:07	0:05	0:14	0:02	1517	1:08	0:05	0:14	0:02
DIA	JFK	1072	1:15	0:12	0:17	0:02	1210	1:17	0:14	0:16	0:05
DIA	LAX	1205	4:12	0:04	0:16	0:05	1501	4:14	0:06	0:14	0:03
DIA	LGA	3152	1:11	0:07	0:14	0:02	3013	1:12	0:08	0:14	0:02
DIA	MIA	1159	2:20	0:02	0:14	0:04	1229	2:21	0:03	0:12	0:02
DIA	MSP	604	1:18	0:03	0:14	0:04	925	1:19	0:03	0:14	0:04
DIA	MSY	58	2:03	0:08	0:13	0:03	9	2:10	0:15	0:13	0:03
DIA	NBO	5108	0:49	0:11	0:17	0:04	6251	0:48	0:09	0:17	0:04
DIA	PHL	1412	1:06	0:05	0:16	0:06	2076	1:07	0:05	0:15	0:05
DIA	PIT	2285	0:37	0:04	0:13	0:03	2601	0:36	0:03	0:12	0:02
DIA	SFO	1184	4:28	-0:00	0:15	0:04	1289	4:28	-0:01	0:13	0:02
DIA	STL	830	1:10	0:01	0:13	0:03	1200	1:11	0:02	0:11	0:01

TABLE III-1-1 (CONTINUED)

AVERAGE TRAVEL TIME AND GROUND
TIMES AND DELAYS
ALL WILDFIRE SEGMENTS

FROM	TO	FLIGHTS	Avg AIR TME	Avg AIR DEL	Avg GND TME	Avg GND DEL	FLIGHTS	Avg AIR TME	Avg AIR DEL	Avg GND TME	Avg GND DEL
FWD	ATL	237A	1:59	0:17	0:04		2510	1:51	0:17	0:16	0:03
EWR	HIS	228B	0:37	0:15	0:06		3297	0:38	0:14	0:15	0:04
EWR	CLF	120B	1:06	0:00	0:17	0:05	1553	1:06	-0:00	0:17	0:05
EWR	NYC	252D	0:41	0:07	0:14	0:02	2741	0:40	0:06	0:13	0:01
EWR	NEH	475	3:42	0:12	0:17	0:06	713	3:40	0:10	0:16	0:05
FWR	NYC	1621	3:09	0:12	0:15	0:03	2267	3:11	0:04	0:15	0:03
EWR	NTW	1362	1:19	0:04	0:15	0:03	1574	1:20	0:05	0:15	0:03
EWR	JFK	H	0:21	0:14	0:15	-0:01	28	0:23	0:15	0:17	0:01
EWR	LAX	953	5:24	0:18	0:17	0:05	1289	5:22	0:16	0:17	0:05
EWR	IA	1957	2:22	0:16	0:16	0:05	2051	2:24	0:08	0:15	0:04
EWR	SY	526	2:28	-0:06	0:16	0:05	250	2:32	-0:01	0:14	0:03
EWR	(BII)	3281	2:01	0:28	0:20	0:06	3665	1:56	0:24	0:20	0:06
EWR	DHL	1701	0:27	0:06	0:15	0:04	1561	0:24	0:07	0:16	0:05
EWR	PIT	2771	0:58	0:10	0:14	0:05	2815	0:56	0:07	0:13	0:02
EWR	SPN	400	5:35	-0:05	0:16	0:04	511	5:34	-0:06	0:17	0:05
FWD	STL	565	2:06	0:11	0:17	0:06	706	2:08	0:13	0:14	0:03

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

TIMES AND DELAYS

ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS	Avg	Avg	Avg	Avg	FLIGHTS	Avg	Avg	Avg	Avg
			AIR TIME	AIR DEL	GND TIME	GND DEL		AIR TIME	AIR DEL	GND TIME	GND DEL
JFK	ATL	2654	1:50	0:17	0:22	0:03	5011	1:51	0:18	0:23	0:04
JFK	HNL	2725	0:34	0:15	0:21	0:04	2983	0:34	0:13	0:19	0:02
JFK	CLE	761	1:11	0:04	0:23	0:05	1076	1:10	0:03	0:22	0:04
JFK	DFA	610	0:41	0:01	0:19	0:01	845	0:43	0:03	0:20	0:02
JFK	DFW	1044	3:43	0:07	0:25	0:06	1450	3:41	0:04	0:22	0:05
JFK	DTW	1849	3:08	0:09	0:25	0:07	2095	3:11	0:13	0:24	0:06
JFK	DTW	1241	1:23	0:04	0:25	0:07	1142	1:25	0:05	0:25	0:07
JFK	FWD	5419	5:17	0:13	0:25	0:07	18	0:18	0:07	0:18	-0:01
JFK	LAX	3990	2:23	0:09	0:21	0:04	4232	5:17	0:12	0:25	0:07
JFK	NYC	171	2:27	0:07	0:22	0:05	4218	2:23	0:09	0:22	0:05
JFK	MSP	1372	2:35	0:07	0:22	0:05	74	2:31	0:11	0:20	0:03
JFK	NSY	2455	1:58	0:14	0:25	0:05	1414	2:16	0:08	0:22	0:05
JFK	PHL	1511	0:50	0:13	0:22	0:05	1973	0:29	0:12	0:24	0:07
JFK	PIT	674	0:58	0:15	0:20	0:05	660	0:59	0:17	0:16	-0:01
JFK	SIA	657	5:15	-0:09	0:25	0:06	839	5:13	-0:10	0:25	0:08
JFK	SFO	2435	5:34	0:45	0:24	0:05	3225	5:30	0:12	0:24	0:06
JFK	STL	228	2:09	0:04	0:24	0:07	506	2:09	0:03	0:26	0:11

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND
TIMES AND DELAYS

ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS	Avg Air Tme	Avg Air Del	Avg Gnd Tme	Avg Gnd Del	FLIGHTS	Avg Air Tme	Avg Air Del	Avg Gnd Tme	Avg Gnd Del
LAX	ATL	2594	3:40	0:03	0:16	0:03	2528	3:38	0:01	0:18	0:05
LAX	ANS	587	4:41	0:06	0:19	0:04	655	4:43	0:08	0:14	0:07
LAX	CLE	1462	3:50	-0:03	0:17	0:05	1012	3:51	-0:03	0:17	0:05
LAX	DEN	3246	1:44	0:04	0:16	0:05	3524	1:44	0:04	0:17	0:06
LAX	DFW	4428	2:24	0:01	0:17	0:05	5161	2:25	0:02	0:16	0:04
LAX	DTW	1052	3:41	-0:01	0:16	0:06	1242	3:41	-0:01	0:17	0:05
LAX	FLL	766	4:16	0:26	0:17	0:04	997	4:37	0:27	0:17	0:04
LAX	JFK	3655	4:59	0:06	0:21	0:05	4004	4:41	0:08	0:21	0:05
LAX	MIA	411	4:12	-0:07	0:18	0:07	510	4:14	-0:05	0:18	0:07
LAX	MSP	1286	2:57	-0:04	0:16	0:05	2370	2:57	-0:04	0:16	0:05
LAX	MSY	468	3:08	0:02	0:19	0:08	643	3:08	0:02	0:15	0:04
LAX	OMD	7166	3:25	0:12	0:19	0:05	8114	3:23	0:09	0:19	0:05
LAX	PHL	1242	4:27	-0:00	0:16	0:07	1593	4:28	0:01	0:19	0:08
LAX	PIT	210	3:53	-0:10	0:18	0:07	362	3:54	-0:09	0:16	0:05
LAX	SEA	1977	2:05	0:07	0:15	0:02	3129	2:05	0:08	0:13	0:02
LAX	SFO	10339	0:52	0:06	0:14	0:02	14538	0:52	0:06	0:14	0:02
LAX	STL	1590	3:03	0:04	0:17	0:06	2655	3:04	0:05	0:16	0:05

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

FLIGHTS AND DELAYS

ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS	Avg Air Time	Avg Air Del.	Avg Gnd Time	Avg Gnd Del	FLIGHTS	Avg Air Time	Avg Air Del.	Avg Gnd Time	Avg Gnd Del
LGA	ATL	4004	1:53	0:14	0:18	0:06	4253	1:53	0:17	0:18	0:06
LGA	HOS	11117	0:35	0:06	0:16	0:04	10896	0:36	0:07	0:18	0:06
LGA	CLE	5327	1:08	0:05	0:20	0:09	3931	1:08	0:05	0:19	0:06
LGA	DCA	10632	0:45	0:14	0:16	0:05	10386	0:46	0:13	0:17	0:06
LGA	NF	2252	3:10	0:09	0:22	0:11	2589	3:12	0:11	0:21	0:10
LGA	DTK	3464	1:18	0:05	0:20	0:09	3360	1:18	0:04	0:19	0:08
LGA	MIA	2612	2:25	0:06	0:20	0:10	2882	2:26	0:06	0:19	0:09
LGA	MSP	1509	2:23	0:05	0:20	0:10	1709	2:24	0:06	0:18	0:08
LGA	MRY	437	2:41	-0:00	0:17	0:07	412	2:42	0:01	0:17	0:07
LGA	IND	7958	1:59	0:28	0:26	0:13	10026	1:56	0:25	0:24	0:11
LGA	PHL	268	0:29	0:00	0:18	0:08	539	0:29	0:00	0:19	0:09
LGA	PIT	5646	1:00	0:08	0:18	0:08	4551	0:58	0:06	0:17	0:07
LGA	STL	1876	2:09	0:08	0:20	0:10	2221	2:11	0:11	0:20	0:10

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

TIMES AND DELAYS

ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS		AveG AIR TIME		AveG AIR DEL		AveG GND TIME		AveG GND DEL				
		FLIGHTS	AIR TIME	Avg	Avg	GND TIME	Avg	GND DEL	Avg	AIR TIME	Avg	AIR DEL	AveG GND TIME	AveG GND DEL
MIA	ATL	4173	1:50	0:12	0:15	0:04	5121	1:30	0:12	0:16	0:05	0:05		
MIA	HIS	1569	2:34	0:05	0:15	0:06	1599	2:34	0:06	0:16	0:07			
MIA	CIT	927	2:14	-0:01	0:14	0:04	1067	2:14	-0:02	0:13	0:03			
MIA	DCA	2181	2:00	0:06	0:13	0:03	2642	2:00	0:07	0:13	0:03			
MIA	JFK	1925	2:34	0:00	0:14	0:04	1990	2:36	0:02	0:14	0:04			
MIA	DTW	1192	2:27	0:01	0:15	0:05	1262	2:26	-0:01	0:14	0:04			
MIA	FAR	1970	2:14	0:05	0:16	0:05	2012	2:19	0:04	0:16	0:05			
MIA	JFK	5525	2:19	0:11	0:18	0:04	3640	2:19	0:11	0:18	0:04			
MIA	LAX	401	4:53	0:18	0:25	0:13	4016	4:47	0:12	0:20	0:10			
MIA	LGA	5220	2:22	0:07	0:17	0:06	3206	2:22	0:07	0:16	0:05			
MIA	NSP						56	3:20	0:00	0:14	0:05			
MIA	NSY	1812	1:37	0:09	0:15	0:06	1866	1:38	0:10	0:14	0:05			
MIA	PPD	2543	2:45	0:11	0:16	0:04	2920	2:40	0:06	0:17	0:05			
MIA	PHL	1966	2:09	0:04	0:15	0:06	1832	2:10	0:04	0:15	0:06			
MIA	PIT	935	2:12	0:05	0:15	0:06	1141	2:11	0:05	0:15	0:06			
MIA	SFO	217	5:27	0:08	0:18	0:08	272	5:19	0:00	0:17	0:07			
MIA	STL	746	2:25	0:02	0:15	0:04	1049	2:25	0:02	0:13	0:04			

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND
TIMES AND DELAYS

ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS	Avg	Avg	Avg	Avg	FLIGHTS	Avg	Avg	Avg	Avg
			AIR TIME	AIR TFL	GND TFL	GND DEL		AIR TFL	AIR DEL	GND TFL	GND DEL
MSP	ATL	1693	1:54	-0:00	0:14	0:05	2031	1:59	0:02	0:14	0:05
MSP	BOS	497	2:15	-0:02	0:16	0:09	660	2:14	-0:00	0:17	0:10
MSP	CLE	497	1:20	0:02	0:13	0:05	763	1:20	0:02	0:14	0:06
MSP	DCA	1610	1:55	0:03	0:14	0:06	1472	1:55	0:03	0:16	0:08
MSP	DFW	1734	1:37	0:05	0:11	0:04	2624	1:38	0:06	0:12	0:05
MSP	DFW	458	1:55	0:05	0:12	0:04	1016	1:56	0:06	0:12	0:04
MSP	DIA	544	1:12	-0:00	0:16	0:08	875	1:13	0:00	0:16	0:10
MSP	JFK	173	2:04	0:02	0:20	0:08	74	2:02	0:00	0:24	0:12
MSP	LAX	1294	3:16	-0:02	0:16	0:08	2371	3:16	-0:02	0:16	0:08
MSP	LGA	1622	2:10	0:09	0:15	0:06	1740	2:08	0:07	0:16	0:07
MSP	MTA						57	2:54	-0:17	0:15	0:08
MSP	(HNL)	5672	0:58	0:16	0:17	0:07	6951	0:55	0:13	0:18	0:08
MSP	DAL	464	2:05	0:03	0:16	0:09	624	2:02	0:02	0:18	0:11
MSP	SFA	824	3:04	-0:06	0:16	0:09	1271	3:05	0:01	0:15	0:08
MSP	SFO	964	3:25	-0:05	0:14	0:06	1725	3:25	-0:02	0:15	0:07
MSP	STL	446	1:03	0:00	0:12	0:05	1187	1:06	0:03	0:11	0:04

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

TIMES AND DELAYS

ALL MINUTE SEGMENTS

FROM	TO	FLIGHTS	Avg Air Time	Avg Air Del	Avg Gnd Time	Avg Gnd Del	FLIGHTS	Avg Air Time	Avg Air Del	Avg Gnd Time	Avg Gnd Del
HSTY	ATL	3150	1:06	0:12	0:11	0:03	3572	1:05	0:11	0:14	0:06
HSTY	BOS	140	2:39	-0:01	0:13	0:07	354	2:40	0:01	0:13	0:07
HSTY	CLE						44	1:55	-0:04	0:12	0:05
HSTY	DEN	3070	2:20	-0:02	0:11	0:05	285	2:21	-0:00	0:11	0:05
HSTY	DFW	3452	1:06	0:10	0:10	0:03	3864	1:08	0:07	0:11	0:04
HSTY	DTW	59	1:50	-0:02	0:08	0:01	9	1:57	-0:03	0:08	0:01
HSTY	EWR	354	2:21	0:12	0:10	0:02	250	2:18	0:09	0:11	0:03
HSTY	JFK	1010	2:26	0:10	0:11	-0:00	465	2:25	0:10	0:14	0:05
HSTY	LAX	705	3:34	0:03	0:14	0:07	681	3:34	0:03	0:15	0:02
HSTY	LGA	717	2:22	0:09	0:13	0:05	827	2:21	0:08	0:12	0:04
HSTY	MIA	1689	1:27	0:04	0:11	0:05	1827	1:26	0:04	0:11	0:05
HSTY	JRD	911	2:04	0:18	0:10	0:01	1037	1:55	0:09	0:12	0:03
HSTY	PHL	685	2:14	-0:05	0:11	0:05	722	2:14	-0:05	0:11	0:05
HSTY	PIT	475	1:54	0:04	0:14	0:08	685	1:52	0:02	0:15	0:07
HSTY	SFO	193	4:06	0:10	0:13	0:06	232	4:07	0:04	0:14	0:07
HSTY	STL	637	1:24	0:02	0:09	0:03	623	1:24	0:03	0:09	0:03

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

TIMES AND DELAYS

ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS		Avg	Avg	Avg	Avg	FLIGHTS	Avg	Avg	Avg
		AIR TIME	GND TIME	AIR DEL	GND DEL	AIR TIME	GND TIME	AIR DEL	GND DEL	AIR DEL	GND DEL
IND	ATL	4951	1:25	0:14	0:20	0:07	5056	1:27	0:20	0:19	0:06
IND	MIS	4109	1:43	0:08	0:21	0:10	4726	1:44	0:08	0:19	0:08
IND	CLE	3144	0:47	0:04	0:21	0:09	3481	0:47	0:06	0:19	0:07
IND	DCA	5785	1:21	0:09	0:20	0:08	7736	1:20	0:08	0:18	0:06
IND	DET	4440	2:02	0:05	0:20	0:09	5920	2:02	0:06	0:19	0:08
IND	DFW	5579	1:53	0:15	0:21	0:09	6190	1:54	0:16	0:20	0:08
IND	DTW	5479	0:34	0:07	0:20	0:08	6699	0:38	0:07	0:16	0:06
IND	FLL	5151	1:30	0:07	0:22	0:09	5461	1:29	0:06	0:21	0:08
IND	JFK	2514	1:37	0:10	0:22	0:06	3436	1:40	0:13	0:21	0:05
IND	LAX	6575	3:44	0:10	0:21	0:09	8069	3:43	0:08	0:21	0:09
IND	LGA	7423	1:55	0:10	0:22	0:09	10077	1:54	0:08	0:20	0:07
IND	MTA	2907	2:24	0:01	0:21	0:10	3308	2:27	0:04	0:20	0:09
IND	SP	5435	0:55	0:05	0:20	0:09	7480	0:55	0:05	0:19	0:08
IND	SYR	948	1:46	-0:01	0:20	0:09	980	1:47	0:01	0:17	0:06
IND	PHL	2447	1:24	0:07	0:22	0:11	3756	1:29	0:08	0:20	0:09
IND	PIT	6304	0:59	0:05	0:14	0:08	7156	0:57	0:03	0:18	0:07
IND	SEA	1923	3:44	0:01	0:25	0:12	2902	3:44	0:00	0:21	0:10
IND	SFO	4191	3:54	0:05	0:22	0:10	5167	3:58	0:04	0:21	0:09
IND	STL	5493	0:43	0:04	0:19	0:08	6140	0:46	0:07	0:17	0:06

TABLE III-1-1 (CONTINUED)
 AVERAGE YEARLY AIR AND GROUND
 TIMES AND DELAYS
 ALL FLIGTTE SEGMENTS

FROM	TO	FLIGHTS			AveG			FLIGHTS			AveG			AveG		
		Avg	Avg Time	Avg Del	Avg	Avg Gnd Tmf	Avg DFL	Avg	Avg Time	Avg Del	Avg	Avg Gnd Tmf	Avg DFL	Avg	Avg Gnd Tmf	Avg DFL
PHL	ATL	3994	1:43	0:29	0:14	0:03		4163	1:42	0:29	0:16	0:16	0:05			
PHL	BOS	7235	0:50	0:14	0:13	0:04		6285	0:49	0:13	0:13	0:13	0:04			
PHL	CLF	1557	1:01	0:04	0:16	0:06		1865	1:00	0:03	0:16	0:16	0:06			
PHL	DCA	1594	0:54	0:04	0:11	0:01		654	0:56	0:05	0:10	0:10	0:00			
PHL	DEN	321	3:33	0:00	0:16	0:07		380	5:51	0:02	0:17	0:17	0:08			
PHL	DFW	1124	2:57	0:15	0:18	0:08		847	3:02	0:19	0:18	0:18	0:08			
PHL	DTW	1617	1:13	0:03	0:16	0:06		2228	1:14	0:04	0:16	0:16	0:06			
PHL	EMR	1145	0:24	0:06	0:15	0:04		1772	0:23	0:06	0:16	0:16	0:05			
PHL	JFK	1528	0:30	0:09	0:17	0:03		2093	0:30	0:09	0:19	0:19	0:05			
PHL	LAX	1376	5:10	0:04	0:18	0:08		1926	5:08	0:01	0:19	0:19	0:09			
PHL	LGA	151	0:25	0:00	0:16	0:05		70	0:29	0:03	0:12	0:12	0:01			
PHL	MIA	2111	2:13	0:07	0:14	0:05		1697	2:13	0:08	0:15	0:15	0:06			
PHL	MSP	425	2:20	0:03	0:15	0:06		570	2:21	0:03	0:15	0:15	0:06			
PHL	MSY	629	2:26	0:01	0:13	0:04		718	2:27	0:02	0:13	0:13	0:04			
PHL	ORD	2976	1:53	0:17	0:20	0:08		4358	1:49	0:13	0:20	0:20	0:08			
PHL	PIT	5877	0:49	0:05	0:13	0:04		5694	0:47	0:03	0:13	0:13	0:04			
PHL	SFO	479	5:30	-0:01	0:19	0:09		704	5:27	0:04	0:19	0:19	0:09			
PHL	STL	764	1:58	0:03	0:17	0:08		988	1:59	0:04	0:16	0:16	0:07			

TABLE III-1-1 (CONTINUED)
 AVERAGE YEARLY AIR AND GROUND
 TIMES AND DELAYS
 ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS	Avg	Avg	Avg	Avg	FLIGHTS	Avg	Avg	Avg	Avg
			AIR TME	AIR DEL	GND TME	GND DEL		AIR TME	AIR DEL	GND TME	GND DEL
PIT	ATL	1961	1:21	0:12	0:13	0:07	2466	1:23	0:14	0:13	0:07
PIT	DIS	1521	1:09	0:09	0:11	0:07	1837	1:04	0:00	0:11	0:07
PIT	CLE	2595	0:26	0:11	0:11	0:06	3008	0:26	0:11	0:12	0:07
PIT	DCA	1456	0:39	0:06	0:12	0:07	1929	0:38	0:05	0:13	0:08
PIT	DTW	134	2:55	0:01	0:16	0:12	172	2:56	0:02	0:14	0:10
PIT	JFK	763	2:26	0:07	0:13	0:08	852	2:28	0:10	0:12	0:07
PIT	DTW	1162	0:54	0:03	0:12	0:07	2162	0:59	0:04	0:12	0:07
PIT	FLL	2355	0:55	0:04	0:11	0:05	2549	0:54	0:04	0:11	0:05
PIT	JFK	920	1:04	0:19	0:13	0:04	955	1:07	0:21	0:13	0:04
PIT	LAX	236	4:27	-0:09	0:16	0:15	361	4:28	-0:04	0:16	0:11
PIT	LGA	5725	0:58	0:11	0:12	0:06	4570	0:55	0:08	0:12	0:06
PIT	MIA	935	2:11	0:11	0:15	0:09	1159	2:11	0:11	0:14	0:10
PIT	MSY	416	2:06	0:07	0:12	0:08	630	2:07	0:08	0:12	0:08
PIT	NHO	6361	1:16	0:12	0:14	0:07	7449	1:13	0:09	0:14	0:07
PIT	PHL	6062	0:46	0:13	0:11	0:07	6404	0:45	0:13	0:11	0:07
PIT	SFO	143	4:51	-0:01	0:16	0:11	155	4:50	-0:03	0:13	0:08
PIT	SCL	1301	1:24	0:01	0:10	0:06	2012	1:25	0:02	0:10	0:06

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

TIMES AND DELAYS

ALL ROUTE SEGMENTS

1974

1975

FROM	TO	FLIGHTS	Avg Air Time	Avg Air Del	Avg Gnd Tme	Avg Gnd Del	FLIGHTS	Avg Air Tme	Avg Air Del	Avg Gnd Tme	Avg Gnd Del
SEA	RUS	39	4:43	-0:14	0:20	0:12					
SEA	DEN	1990	2:01	-0:01	0:05	0:13	2113	2:02	0:00	0:13	0:05
SEA	FRA	775	3:11	-0:07	0:12	0:03	716	3:10	-0:04	0:12	0:05
SEA	JFK	534	4:40	0:09	0:18	0:05	734	4:58	0:08	0:19	0:06
SEA	LAX	2021	2:01	0:07	0:13	0:04	3517	2:01	0:06	0:13	0:04
SEA	MSP	641	2:39	-0:03	0:14	0:06	948	2:40	-0:02	0:14	0:06
SEA	ORD	1948	3:22	0:08	0:18	0:07	2798	3:17	0:04	0:18	0:07
SEA	SFO	2764	1:34	0:12	0:12	0:03	5328	1:52	0:10	0:12	0:05
SEA	STL	354	3:13	0:02	0:14	0:06	361	5:13	0:02	0:13	0:05

TABLE III-1-1 (CONTINUED)
 AVERAGE YEARLY AIR AND GROUND
 TIMES AND DELAYS
 ALL ROUTE SEGMENTS

FROM (T)	TO	FLIGHTS			AVG			AVG			AVG			AVG		
		AIR TIME	AIR DEL	GND TAT	AIR TIME	AIR DEL	GND TAT	AIR TIME	AIR DEL	GND TAT	AIR TIME	AIR DEL	GND TAT	AIR TIME	AIR DEL	GND TAT
SFO	ATL	636	3:56	-0:03	0:17	0:05		720	3:56	-0:04	0:22	0:10				
SFO	HIS	460	4:48	-0:11	0:22	0:12		693	4:48	-0:10	0:20	0:10				
SFO	CIF	254	3:58	-0:13	0:18	0:07		353	4:02	-0:09	0:18	0:07				
SFO	NPK	1941	1:55	0:06	0:17	0:07		2977	1:56	0:07	0:16	0:06				
SFO	DFW	2827	2:49	0:06	0:16	0:05		3225	2:48	0:05	0:16	0:05				
SFO	LAX	1598	3:52	0:00	0:17	0:06		1645	3:52	0:01	0:17	0:06				
SFO	FKA	254	4:44	-0:01	0:20	0:08		349	4:44	-0:01	0:20	0:08				
SFO	JFK	2380	4:51	0:21	0:22	0:07		3273	4:52	0:22	0:23	0:08				
SFO	LAX	9367	0:52	0:06	0:16	0:05		13671	0:52	0:05	0:15	0:04				
SFO	WTA	217	4:41	-0:15	0:50	1:20		271	4:41	-0:15	0:18	0:08				
SFO	ESP	1036	5:01	0:06	0:14	0:04		1736	5:02	0:06	0:15	0:05				
SFO	SYA	180	5:32	-0:07	0:15	0:05		99	5:25	-0:14	0:16	0:06				
SFO	IWN	4491	3:36	0:11	0:21	0:08		5607	3:32	0:08	0:21	0:08				
SFO	PHL	582	4:39	-0:05	0:20	0:10		819	4:40	-0:02	0:20	0:10				
SFO	PIT	145	4:16	-0:06	0:20	0:10		156	4:13	-0:08	0:18	0:08				
SFO	SHN	3121	1:51	0:07	0:14	0:04		5253	1:51	0:07	0:13	0:03				
SFO	STL	705	3:14	-0:01	0:17	0:07		903	3:16	0:01	0:16	0:06				

TABLE III-1-1 (CONTINUED)

AVERAGE YEARLY AIR AND GND/D

TIMES AND DELAYS

ALL ROUTE SEGMENTS

FROM	TO	FLIGHTS	Avg	Avg	Avg	Avg	FLIGHTS	Avg	Avg	Avg	Avg
			AIR TIME	AIR DEL	GND TIME	GND DEL		AIR TIME	AIR DEL	GND TIME	GND DEL
STL	ATL	2374	1:09	0:05	0:13	0:06	2834	1:09	0:06	0:14	0:07
STL	BOS	457	2:04	0:07	0:16	0:11	642	2:05	0:08	0:15	0:10
STL	CLE	1294	1:05	0:08	0:14	0:04	1924	1:06	0:09	0:15	0:07
STL	DCA	1347	1:30	0:02	0:14	0:08	2296	1:29	0:01	0:13	0:07
STL	DFW	2090	1:52	0:04	0:21	0:16	2119	1:51	0:04	0:19	0:14
STL	DFW	2157	1:19	0:04	0:13	0:07	2865	1:21	0:06	0:13	0:07
STL	DTW	409	1:02	0:07	0:15	0:09	1282	1:01	0:06	0:14	0:06
STL	FWD	366	1:50	0:05	0:16	0:09	644	1:48	0:03	0:15	0:08
STL	JFK	47	1:54	0:05	0:17	0:07	83	1:51	0:02	0:16	0:06
STL	LAX	1730	3:27	0:06	0:17	0:11	5094	3:28	0:04	0:15	0:09
STL	LGA	1854	1:54	0:04	0:16	0:09	2182	1:52	0:02	0:15	0:08
STL	MIA	845	2:13	0:00	0:13	0:08	1168	2:14	0:01	0:12	0:07
STL	MSP	878	1:05	-0:00	0:12	0:07	1048	1:04	0:00	0:12	0:07
STL	MSY	720	1:24	-0:01	0:10	0:05	690	1:23	-0:01	0:10	0:05
STL	NRT	5795	0:53	0:15	0:11	0:03	6735	0:50	0:11	0:12	0:04
STL	PHL	608	1:41	0:04	0:17	0:12	739	1:41	0:04	0:17	0:12
STL	PIT	1587	1:15	0:07	0:12	0:07	2168	1:12	0:04	0:12	0:07
STL	SEA	488	3:41	0:01	0:12	0:07	554	3:43	0:03	0:12	0:07
STL	SFO	493	3:43	-0:03	0:17	0:11	808	3:42	-0:04	0:16	0:10
TOTAL		680897	1:45	0:09	0:16	0:06	798549	1:46	0:08	0:16	0:06

TABLE III-1-2
AVERAGE YEARLY AIR AND GROUND
TIMES AND DELAYS
TOP 50 ROUTE SEGMENTS

FROM	TO	FLIGHTS	Avg AIR TIME	Avg AIR DEL	Avg GND TIME	Avg GND DEL	FLIGHTS	Avg AIR TIME	Avg AIR DEL	Avg GND TIME	Avg GND DEL
ATL	NYC	3534	1:42	0:07	0:17	0:06	4134	1:43	0:08	0:16	0:05
ATL	NYA	4745	1:20	0:05	0:18	0:08	5199	1:20	0:05	0:17	0:07
ATL	IND	4424	1:33	0:19	0:18	0:05	4888	1:30	0:15	0:19	0:06
ATL	IND	6596	1:04	0:04	0:15	0:05	6321	1:03	0:04	0:15	0:03
HNL	DTK	5081	0:46	0:06	0:17	0:04	3096	0:46	0:06	0:16	0:03
HNL	FRA	2945	0:41	0:12	0:14	0:02	3137	0:40	0:12	0:19	0:03
HNL	JFK	11537	0:42	0:10	0:16	0:03	11418	0:41	0:09	0:16	0:03
HNL	LGA	6921	0:57	0:15	0:14	0:05	6159	0:55	0:13	0:15	0:04
CLE	INT	2934	0:25	0:04	0:10	-0:00	3806	0:26	0:05	0:09	-0:01
DCA	RIS	6425	0:59	0:06	0:14	0:03	6410	0:59	0:06	0:14	0:03
DCA	LGA	10767	0:44	0:13	0:15	0:02	10280	0:44	0:12	0:14	0:01
DCA	IND	6251	1:44	0:22	0:19	0:05	8084	1:41	0:19	0:18	0:04
DEN	IND	5002	1:55	0:13	0:15	0:07	6330	1:53	0:12	0:16	0:08
DFW	ATL	5449	1:57	0:10	0:13	0:03	4506	1:56	0:09	0:14	0:04
DTK	LGA	3152	1:11	0:07	0:14	0:02	3015	1:12	0:08	0:14	0:02
DTK	IND	5104	0:49	0:11	0:17	0:04	6251	0:48	0:09	0:17	0:04
FAR	RIS	2286	0:37	0:13	0:17	0:06	3297	0:38	0:14	0:15	0:04
FAR	IND	5281	0:00	0:24	0:06	0:00	3665	1:56	0:24	0:20	0:06

TABLE III-1-2 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

TIMES AND DELAYS

TOP 50 ROUTESEGMENTS

FROM	TO	FLIGHTS	Avg Air Time	Avg Air Del	Avg Gnd Tme	Avg Gnd Del	FLIGHTS	Avg Air Time	Avg Air Del	Avg Gnd Tme	Avg Gnd Del
JFK	HNL	2723	0:34	0:13	0:21	0:04	2983	0:34	0:13	0:19	0:02
JFK	MIA	5990	2:23	0:09	0:21	0:04	4218	2:23	0:09	0:22	0:05
LAX	ORD	7166	3:25	0:12	0:19	0:05	8114	3:23	0:09	0:19	0:04
LAX	SFO	10339	0:52	0:06	0:14	0:02	14538	0:52	0:06	0:14	0:02
LGA	HNL	11117	0:35	0:06	0:18	0:08	10836	0:36	0:07	0:18	0:06
LGA	DCA	10632	0:45	0:14	0:16	0:05	10366	0:46	0:13	0:17	0:06
LGA	DTW	5464	1:18	0:05	0:20	0:09	3360	1:18	0:04	0:19	0:08
LGA	ORD	7958	1:59	0:24	0:26	0:13	10026	1:56	0:25	0:24	0:11
MIA	ATL	4173	1:30	0:12	0:15	0:04	5121	1:30	0:12	0:16	0:05
MIA	JFK	5525	2:19	0:11	0:18	0:04	3640	2:19	0:11	0:18	0:04
MSP	ORD	5672	0:58	0:16	0:17	0:07	6951	0:55	0:13	0:18	0:08
ORD	ATL	4831	1:25	0:18	0:20	0:07	5056	1:27	0:20	0:19	0:06
ORD	HNL	4109	1:43	0:08	0:21	0:10	4726	1:44	0:08	0:19	0:08
ORD	DCA	5785	1:21	0:09	0:20	0:08	7736	1:20	0:08	0:18	0:06
ORD	DET	4940	2:02	0:05	0:20	0:09	5920	2:02	0:06	0:19	0:08
ORD	DTW	5479	0:34	0:07	0:20	0:04	6699	0:34	0:07	0:18	0:06
ORD	FLL	3151	1:30	0:07	0:22	0:09	3461	1:29	0:06	0:21	0:08
ORD	LAX	6573	3:44	0:10	0:21	0:09	8069	3:43	0:08	0:21	0:09
ORD	LGA	7623	1:55	0:10	0:22	0:09	10077	1:54	0:08	0:20	0:07
ORD	MSP	5835	0:55	0:05	0:20	0:09	7480	0:55	0:05	0:19	0:08

TABLE III-1-2 (CONTINUED)

AVERAGE YEARLY AIR AND GROUND

TIMES AND DELAYS

TOP 50 ROUTE SEGMENTS

-----1974-----1975-----

FROM	TO	FLIGHTS	Avg Air Tme	Avg Air Del	Avg Gnd Tme	Avg Gnd Del	FLIGHTS	Avg Air Tme	Avg Air Del	Avg Gnd Tme	Avg Gnd Del
ORD	PIT	6308	0:59	0:05	0:19	0:06	7156	0:57	0:03	0:18	0:07
ORD	SFO	4191	3:58	0:05	0:22	0:10	5167	3:58	0:04	0:21	0:09
ORD	STL	5493	0:43	0:04	0:19	0:04	6140	0:46	0:07	0:17	0:06
PHL	HIS	7235	0:50	0:14	0:13	0:04	6285	0:49	0:13	0:13	0:04
PHL	PIT	5H77	0:49	0:05	0:13	0:04	5694	0:47	0:03	0:13	0:04
PIT	ORD	63A1	1:16	0:12	0:14	0:07	7449	1:13	0:09	0:14	0:07
PIT	PHL	6082	0:46	0:13	0:11	0:07	6474	0:45	0:14	0:11	0:07
SEA	SFO	2764	1:34	0:12	0:12	0:03	532R	1:52	0:10	0:12	0:05
SFO	LAX	9367	0:52	0:06	0:16	0:05	13671	0:52	0:05	0:15	0:04
SFO	IND	4491	3:36	0:11	0:21	0:08	5607	3:32	0:08	0:21	0:08
SFO	SEA	5121	1:51	0:07	0:14	0:04	5253	1:51	0:07	0:15	0:05
STL	IND	5795	0:53	0:15	0:11	0:03	6735	0:50	0:11	0:12	0:04
TOTAL		278978	1:20	0:11	0:17	0:06	320340	1:21	0:10	0:17	0:05

TABLE III-2

AVERAGE MONTHLY AIRBORNE DELAYS AND GROUND DELAYS
COMPOSITE FOR THE TOP 50 U.S. ROUTE SEGMENTS

MONTH	1974			1975		
	No. OF FLIGHTS	Avg AIR Delay	Avg GND Delay	No. OF FLIGHTS	Avg AIR Delay	Avg GND Delay
JANUARY	11483	0:10	0:05	26466	0:11	0:05
FEBRUARY	24563	0:10	0:05	26556	0:11	0:06
MARCH	25833	0:10	0:05	27604	0:10	0:05
APRIL	24421	0:09	0:05	25880	0:09	0:05
MAY	19858	0:10	0:05	29671	0:08	0:05
JUNE	17638	0:10	0:05	25174	0:09	0:06
JULY	16465	0:09	0:05	24962	0:08	0:06
AUGUST	32210	0:11	0:07	50872	0:08	0:06
SEPTEMBER	27963	0:13	0:08	26397	0:08	0:05
OCTOBER	28166	0:12	0:06	24820	0:09	0:05
NOVEMBER	25758	0:11	0:05	28334	0:11	0:05
DECEMBER	23790	0:11	0:06	23604	0:11	0:06
TOTAL	278978	0:11	0:06	320340	0:10	0:05

COMPOSITE NOMINAL AIRBORNE TIME = 1111
COMPOSITE NOMINAL GROUND TIME = 0:12

---ALL TIMES ARE IN HOURS AND MINUTES---

FIGURE III-2

AVERAGE MONTHLY AIRBORNE AND GROUND DELAYS
COMPOSITE FOR TOP 50 ROUTE SEGMENTS

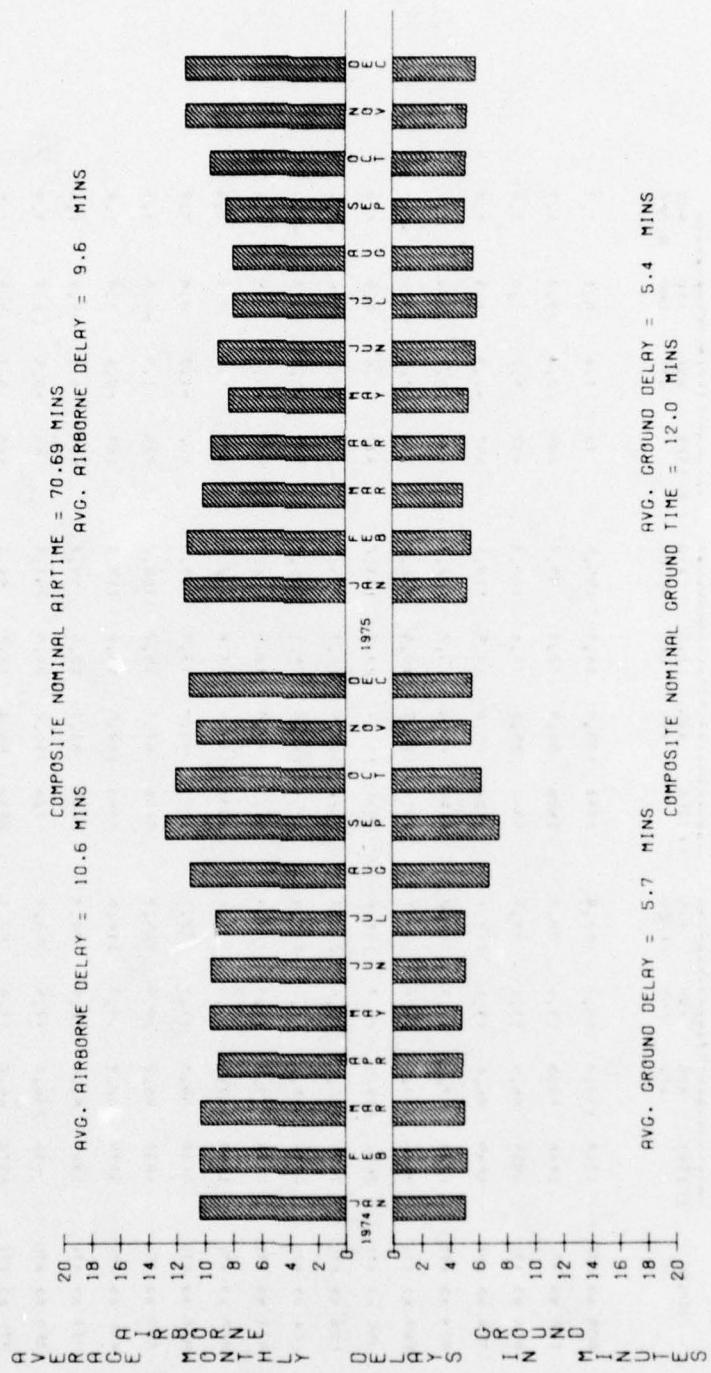


TABLE III-3-1

AVG HADRY AIR, MACH AND GROUND TIMES
FOR DIFFERENT SEGMENTS ARRIVING AT ATL

ROUTE	1970			1975			DIFFERENCE		
	FITFS	Avg Air	Avg Ground	FITFS	Avg Air	Avg Ground	FITFS	Avg Air	Avg Ground
RNS \Rightarrow ATL	171.8	137.2	16.7	170.8	136.8	16.8	7.2	1.6	0.1
CLF \Rightarrow ATL	116.6	84.5	13.6	162.6	86.8	17.9	46.0	2.3	-0.7
DCA \Rightarrow ATL	49.5	45.5	13.1	53.5	53.2	14.6	37.0	0.2	1.6
NFM \Rightarrow ATL	184.9	95.9	13.1	450.6	95.6	14.5	657	-1.3	1.3
NTW \Rightarrow ATL	122.3	87.3	13.9	155.0	87.4	15.2	127	0.1	1.4
FHQ \Rightarrow ATL	237.6	110.1	16.6	251.0	110.7	15.9	134	0.6	-0.6
JFK \Rightarrow ATL	263.0	109.5	22.1	301.1	110.5	22.7	37.7	1.0	0.0
LAX \Rightarrow ATL	259.8	227.1	16.1	232.8	217.9	17.7	-25.5	-2.2	1.6
LGA \Rightarrow ATL	400.0	113.4	18.0	151.0	425.3	112.8	151.2	24.0	-0.5
HIA \Rightarrow ATL	417.1	89.9	15.0	104.8	512.1	89.8	94.8	-0.0	1.4
MSP \Rightarrow ATL	169.3	117.5	13.5	151.1	203.1	110.4	152.9	33.8	1.8
MSV \Rightarrow ATL	315.0	65.5	11.1	77.4	557.2	64.6	13.7	78.3	-1.7
ORO \Rightarrow ATL	483.1	85.2	20.0	105.2	505.6	87.1	106.3	90.8	0.0
PHL \Rightarrow ATL	399.0	102.9	13.7	116.6	416.3	102.5	119.0	169	-0.4
PIT \Rightarrow ATL	196.1	81.4	12.9	94.5	246.6	85.1	12.5	50.5	1.7
SFO \Rightarrow ATL	656	216.0	17.5	213.0	720	236.0	21.8	46	-0.5
STL \Rightarrow ATL	237.4	68.7	13.4	82.1	283.6	69.4	13.7	460	0.7
ATL \Rightarrow ATL	472.1	526.7	0.0	0.0	539.8	0.2	0.0	1.0	0.0

TABLE III-3-2

AVG RTT OF AIRPLANE AND GROUND TRAFFIC
FOR ROUTE STATEMENTS ARRIVING AT HNS

ROUTE	1974			1975			1976			1977		
	FITTS	Avg ATM	Avg GND									
ATL => RNS	1367	117.1	20.2	137.3	1424	116.9	14.2	135.1	57	-0.2	-2.0	-2.7
CIF => RNS	1196	74.9	12.8	67.7	1320	76.4	13.6	90.0	153	1.5	0.8	2.3
DCA => RNS	6425	59.3	13.8	73.1	6410	58.8	14.1	72.9	-15	-0.5	0.3	-0.2
DFW => RNS	566	197.5	15.1	212.6	564	196.4	15.8	212.2	298	-1.1	0.7	-0.4
DFW => RNS	332	179.2	18.9	194.1	342	182.7	17.8	200.6	10	3.0	-1.1	2.5
DTW => RNS	1425	79.9	14.6	90.5	1566	80.4	13.2	93.6	-259	0.5	-1.4	-0.9
FWR => RNS	2286	37.3	17.3	54.5	5297	38.1	15.0	53.0	1011	0.4	-2.3	-1.4
JFK => RNS	2723	45.6	21.2	54.8	2983	50.1	18.6	52.7	260	0.5	-2.4	-2.1
LAX => RNS	587	281.1	19.2	300.3	655	282.8	18.5	301.3	68	1.7	-0.7	1.1
LGA => RNS	11117	155.0	18.1	55.0	10496	56.1	17.8	53.9	-221	1.2	-0.3	0.9
NYC => RNS	1569	153.6	14.8	168.4	1590	154.0	15.7	160.4	50	0.5	0.4	1.1
NSP => RNS	497	132.6	16.1	148.7	660	134.2	16.6	150.9	163	1.6	0.6	2.2
NSY => RNS	180	150.4	12.6	171.4	558	160.1	15.0	173.1	174	1.5	0.0	1.7
NWA => RNS	4109	103.4	20.7	124.1	4726	104.0	19.2	123.2	517	0.6	-1.5	-0.9
PHL => RNS	7235	50.5	12.5	63.0	6285	49.3	13.2	62.5	-950	-1.1	0.6	-0.5
PIT => RNS	1520	68.7	11.2	80.0	1437	68.6	10.7	79.3	517	-0.1	-0.5	-0.4
SFA => RNS	50	282.7	19.7	302.4								
SFO => RNS	460	287.6	22.3	309.8	693	288.2	21.4	308.6	233	0.7	-1.9	-1.2
STL => RNS	457	124.4	16.0	140.3	842	126.5	15.0	140.7	385	0.4	-0.4	0.4
ALI => RNS									2276	0.3	-0.4	-0.7

TABLE III-3-3
AVERAGE YEARLY ATUAL FLICK AND GROUND TIMES
FOR FLIGHT SEGMENTS ARRIVING AT CIF

ROUTE	FLIGHTS	1975			1975			DIFFERENCE		
		AVG ATH	AVG GND	AVG FLICK	AVG ATH	AVG GND	AVG FLICK	AVG ATH	AVG GND	AVG FLICK
ATL => CIF	1128	77.7	16.3	94.0	1031	76.0	17.0	93.1	101	-1.7
HON => CIF	443	88.5	14.4	102.8	1287	88.1	14.8	102.9	944	-0.4
NCA => CIF	1721	54.5	15.2	69.7	2402	55.0	14.9	69.9	681	0.5
DEN => CIF	379	138.6	13.4	152.0	692	138.6	13.2	151.8	263	-0.1
NW => CIF	711	122.7	17.5	140.2	599	122.8	15.1	137.9	112	-0.1
DTW => CIF	2649	24.6	9.5	34.1	5591	24.8	9.5	33.3	902	0.2
EWR => CIF	1206	66.3	16.7	83.1	1553	65.5	16.5	82.0	347	-0.8
JFK => CIF	761	71.0	22.6	93.6	1076	70.2	22.1	92.3	315	-0.8
LAX => CIF	1462	230.5	16.7	247.7	1012	231.1	16.9	248.1	450	0.7
I GA => CIF	5327	67.5	20.0	87.6	1931	68.1	18.7	86.8	604	0.5
HIA => CIF	427	138.4	14.1	152.5	1067	137.8	13.2	151.0	240	-0.5
HGP => CIF	447	79.9	13.0	92.9	763	80.0	14.5	94.4	316	0.1
HST => CIF					44	115.0	11.6	126.6		1.6
IRN => CIF	5144	47.2	20.7	67.9	3481	46.9	19.4	66.2	337	-0.5
PHL => CIF	1557	60.8	15.3	76.6	1465	60.3	16.0	76.3	308	-0.5
PIT => CIF	2595	26.4	11.3	37.7	3008	26.0	11.8	37.8	413	-0.5
SFR => CIF	238	218.3	18.1	256.4	353	241.9	17.5	259.5	115	3.0
STL => CIF	1299	64.4	14.0	78.7	1924	65.6	12.8	78.5	625	0.9
All => CIF	20334	30029			5695	30.0	0.5	30.6		

TABLE III-3-4

AVERAGE YEARLY AIR, RAIL, AND SHIPMENT TIMES
FOR QUINTE SEGMENTS ARRIVING AT DCA

ROUTE	1974			1975			DIFFERENCE		
	FLIGHTS	Avg. air	Avg. land and water	FLIGHTS	Avg. air	Avg. land and water	FLIGHTS	Avg. air	Avg. land and water
ATL => DCA	4028	75.6	16.7	4759	72.8	16.5	311	-0.8	-0.5
BOS => DCA	6590	63.7	15.1	6321	63.5	15.1	269	-0.3	0.0
GIF => DCA	1954	51.2	12.3	2299	50.6	12.2	345	-0.7	-0.1
NYC => DCA	1945	62.4	13.0	2374	62.4	12.6	349	-0.4	-0.4
FAR => DCA	2520	41.0	14.2	2741	40.5	13.1	221	-0.7	-1.1
IFK => DCA	610	40.8	18.7	445	40.4	19.4	245	1.4	1.1
IGA => DCA	10632	65.4	16.5	10386	65.6	16.5	246	0.1	0.1
ITA => DCA	2184	119.5	13.1	2442	120.5	13.0	135.3	2.4	0.1
ESP => DCA	1410	115.2	14.3	1472	115.3	16.1	151.4	6.2	1.9
IRN => DCA	5785	81.3	19.5	100.9	73.6	10.5	17.9	98.2	19.1
RHI => DCA	1594	38.2	10.7	48.9	65.4	16.5	10.4	46.9	-9.6
PIT => DCA	1456	39.0	11.0	50.9	1920	37.9	15.4	51.3	-1.1
STL => DCA	1347	90.0	15.5	105.5	2296	89.5	13.4	102.7	94.9
ATL => DCA	62084	65.8	11.4	74.4	-0.4	-0.2	-0.4	-0.2	-0.2

TABLE III-3-5

AVERAGE OF ARRIVAL TIME, BLOCK AND GROUND TIMES
FOR DRILL SEGMENTS ARRIVING AT DFW

ROUTE	FLIGHTS	1974			1975			DIFFERENCE		
		Avg Arr	Avg Block	Avg Gnd	Flights	Avg Arr	Avg Block	FITTES	Avg Arr	Avg Block
HIS > DFW	556	239.7	160.2	255.0	1040	238.2	17.2	255.5	400	-1.5
C LF > DFW	427	165.2	14.2	170.4	656	163.8	13.8	177.5	209	+1.4
D FW > DFW	4636	98.4	12.6	107.0	5169	95.0	12.4	107.3	733	0.6
NTW > DFW	516	163.8	16.9	164.7	721	152.7	13.8	166.5	205	-1.1
FWR > DFW	875	222.1	17.0	230.1	713	220.0	16.0	235.0	238	+2.1
JFK > DFW	1000	224.4	22.6	268.1	1450	220.0	22.3	263.2	400	-2.5
LAX > DFW	5246	164.0	15.0	119.9	3524	164.5	17.4	121.9	278	0.5
MSP > DFW	1730	97.1	11.4	108.5	2624	98.0	11.7	109.7	890	0.9
MSV > DFW	300	140.7	16.7	150.4	285	141.5	10.7	152.2	15	1.8
MHD > DFW	4940	121.7	19.7	141.3	5920	122.5	19.0	141.3	980	0.6
PHL > DFW	321	212.7	16.5	229.0	380	210.6	17.1	227.7	59	-2.1
PIT > DFW	150	174.6	16.8	190.5	172	176.4	16.1	190.5	38	1.8
SEA > DFW	1490	171.1	17.0	154.0	2513	172.1	15.0	155.2	314	1.1
SFO > DFW	1941	115.3	17.0	152.4	2977	115.6	16.2	151.9	1036	0.3
SFO > DFW	2000	111.6	21.2	132.8	2110	111.2	19.1	150.3	29	-0.4
SLC > DFW										-2.5
ALL > DFW										-0.1

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TABLE III-3-6

AVERAGE YARDAGE ATW, BLOCK AND CRIMSON TIMES
FOR BLOCK STRENGTHS ADJUSTED AT DF*

QUINTILE	1974			1975			1976			
	FLIGHTS	Avg ATW	Avg CND	FLIGHTS	Avg ATW	Avg CND	FLIGHTS	Avg ATW	Avg CND	
ATI => DF*	3530	161.4	160.7	119.5	4150	162.4	119.3	595	1.0	-0.2
ATI => DF*	342	211.0	164.4	227.8	436	214.0	184.2	44	2.4	1.8
ATI => DF*	408	139.7	137.7	155.4	403	135.4	134.1	104.9	-3.1	-0.5
ATI => DF*	4590	85.4	123.3	98.7	556	85.6	120.7	98.3	77.9	-0.3
ATI => DF*	1188	147.8	134.6	151.4	413	141.2	133.0	154.2	-3.4	-0.6
PWD => DF*	1621	149.2	149.3	200.5	2267	191.5	154.1	206.6	64.6	-2.3
JPK => DF*	1849	187.4	25.1	212.9	2045	191.0	24.1	215.1	246	5.2
LAY => DF*	4428	144.1	17.0	161.1	5161	144.4	16.2	161.0	73.3	0.7
LGA => DF*	2252	190.3	21.6	211.4	2580	192.2	21.1	213.3	53.7	1.9
MTA => DF*	1025	154.2	164.0	164.2	1000	156.1	13.5	164.6	65	1.8
MSP => DF*	1154	115.1	125.5	127.0	1016	115.0	12.3	128.1	154	0.7
HSD => DF*	3052	64.5	10.4	74.9	564	67.8	10.8	78.5	41.7	-0.4
PNR => DF*	5570	112.4	21.0	133.8	6100	113.9	19.8	133.8	611	1.2
PHI => DF*	1128	177.3	17.4	195.0	447	181.5	17.6	190.1	-241	4.2
PIT => DF*	763	145.6	12.8	158.4	452	148.0	12.4	160.4	49	-0.4
SEA => DF*	775	191.4	11.9	203.3	714	184.6	12.1	201.7	-50	-1.8
SFI => DF*	2427	169.2	16.2	185.0	3228	168.5	16.4	184.7	398	-1.0
STI => DF*	2157	79.3	13.3	92.6	2865	81.2	12.8	93.9	704	1.4
									4790	0.4
									4481	0.3

ATI => DF*

ATI

ATI => DF*

TABLE III-3-7

AVERAGE YEARLY AIRPORT AND GROUND TIMES
FOR ROUTE SEGMENTS ARRIVING AT DT*

ROUTE	1974			1975			DIFFERENCE		
	FIFTS	Avg ATR	Avg GND	FIFTS	Avg ATR	Avg GND	FIFTS	Avg ATR	Avg GND
ATL => DT*	1337	80.5	10.1	90.8	1121	79.5	10.7	98.2	-7.1
BOS => DT*	1601	85.1	15.8	111.0	1427	95.9	15.7	111.2	-17.4
CLE => DT*	2938	25.1	0.9	54.9	3806	25.8	0.8	54.5	-1.1
DCA => DT*	2096	66.2	14.1	80.2	2458	66.8	14.8	81.6	-0.4
DEN => DT*	520	131.2	17.1	145.1	710	151.8	15.1	146.9	0.7
NFM => DT*	808	125.0	15.7	138.7	1050	121.8	15.1	137.0	-1.7
FWR => DT*	1362	79.1	14.0	94.0	1574	79.9	15.5	95.5	-2.7
JFK => DT*	1241	82.9	24.5	107.4	2142	84.5	25.4	109.9	-9.0
LAX => DT*	1052	220.7	17.8	218.5	1242	221.5	17.0	238.4	-1.1
LGA => DT*	5064	74.4	20.0	94.3	5360	74.1	18.9	96.9	-1.1
MIA => DT*	1192	107.4	16.9	162.1	1262	146.0	13.0	159.8	-1.5
MSP => DT*	544	72.2	16.0	88.2	875	72.8	14.0	90.8	-1.1
MSY => DT*	59	118.2	8.2	126.1	9	117.5	8.0	125.3	-1.7
MRO => DT*	5070	38.0	20.0	58.3	6699	58.0	18.0	56.0	-1.4
PHL => DT*	1617	73.3	16.0	89.2	2228	74.4	15.0	90.0	-1.3
PIT => DT*	2162	87.8	12.3	50.1	2162	88.7	11.8	50.5	0.0
SFO => DT*	1598	231.8	16.6	248.4	1645	231.9	17.3	249.2	-0.7
STL => DT*	909	61.7	15.1	76.8	12H2	60.7	14.2	75.0	-1.0
ATL => DT*	29979							4040	0.2
								4019	-0.4

TABLE III-3-8

AVERAGE YEARLY AIR, BLOCK AND GROUND TIME^a
FOR ROUTE SEGMENTS ARRIVING AT ENR

ROUTE	1974			1975			DIFFERENCE					
	FLIGHTS	Avg ATH	Avg GND	Avg BLOCK	FLIGHTS	Avg ATH	Avg GND	Avg BLOCK	Avg ATH	Avg GND	Avg BLOCK	
ATL => FWD	2099	97.0	14.1	115.1	2411	95.3	17.9	113.0	-1.7	-0.3	-2.1	
BIS => FWD	3080	46.8	16.6	62.4	3096	45.6	16.5	62.1	1.6	-0.2	-0.1	
CLE => FWD	995	59.8	14.0	75.9	1400	59.7	14.5	74.2	0.5	-0.1	0.3	
DCA => FWD	2708	148.7	17.5	51.2	2960	148.7	13.8	52.4	252	-0.1	-0.7	
DET => FWD	464	145.0	16.9	201.9	652	145.9	16.5	202.3	188	0.9	-0.4	
DFW => FWD	1527	163.5	14.7	178.7	2410	160.9	15.1	176.0	183	-2.5	0.4	
DTW => FWD	1340	67.5	14.2	81.7	1517	67.8	14.0	82.3	173	0.4	0.2	
JFK => FWD					18	14.2	18.2	36.4				
LAX => FWD	764	275.8	16.6	292.4	447	277.2	16.8	294.0	231	1.3	0.5	
MIA => FWD	1970	134.1	16.0	154.1	2012	139.4	15.9	155.3	42	1.3	0.0	
MSY => FWD	150	140.9	17.3	151.2	250	137.8	11.1	148.9	-104	-5.1	0.8	
NHO => FWD	3151	90.1	22.4	112.6	3461	89.4	20.7	110.1	310	-0.7	-1.8	
PHL => FWD	1145	23.9	14.9	38.7	1772	23.4	16.1	39.5	627	-0.5	1.2	
PIT => FWD	2355	54.9	11.4	66.3	2549	53.5	11.5	65.0	214	-1.4	0.1	
SFO => FWD	258	284.2	20.0	304.2	349	284.4	19.8	304.2	91	0.2	-0.0	
STL => FWD	368	109.9	15.6	125.5	644	107.5	14.5	122.1	276	-2.4	-3.4	
ALL => FWD									3534	-0.6	-0.2	
									2649			

TABLE III-3-9

AVGAGE OF AW, BLICK AND GROUND TIMES
FOR RAILTF SPECIMENTS ARRIVING AT JFK

ROUTE	FITTES	1974			1975			DIFFERENCE		
		Avg AW	Avg GND	Avg BLICK	FITTES	Avg AW	Avg GND	Avg BLICK	FITTES	Avg AW
ATL => JFK	216.7	99.7	149.0	119.5	229.5	98.7	199.9	119.6	128	-0.9
HHS => JFK	289.3	110.6	149.2	59.8	313.7	40.3	149.5	59.8	244	-0.3
CLF => JFK	65.0	75.0	169.0	40.0	101.7	74.0	169.1	40.1	363	-0.8
ICA => JFK	47.8	42.6	149.0	57.5	82.8	45.3	179.4	60.7	350	0.7
DNW => JFK	115.1	194.1	199.2	213.3	166.4	194.8	209.0	215.2	533	0.6
DFW => JFK	169.0	168.6	179.4	169.0	169.0	168.8	179.5	166.3	0	-0.2
DTW => JFK	107.2	75.2	149.0	92.2	121.0	77.3	179.6	94.9	138	-0.7
FAR => JFK	R	214.3	159.1	56.4	28	22.9	169.0	39.8	20	1.6
LAX => JFK	365.5	279.2	219.2	309.4	400.6	281.2	209.9	302.1	351	-0.5
MTA => JFK	55.26	139.1	149.1	157.2	364.0	139.9	189.4	157.3	115	-0.2
MSD => JFK	173	123.9	199.0	145.7	74	122.3	239.8	146.1	-99	-5.5
MSY => JFK	101.9	145.6	109.7	156.2	865	144.9	139.6	158.6	-154	-0.6
NWD => JFK	251.4	97.2	229.4	119.6	343.6	100.0	219.0	121.4	922	-1.0
PHL => JFK	152.8	299.9	169.6	46.5	209.3	29.8	149.8	49.4	565	-0.1
PIT => JFK	92.0	64.5	139.3	179.4	955	66.6	129.7	79.3	35	-0.6
SEA => JFK	56.0	279.8	149.4	298.1	755	278.4	199.1	297.5	199	-1.4
SFO => JFK	234.0	291.0	229.3	313.3	327.3	292.5	229.8	315.3	893	0.5
SJC => JFK	47	114.1	179.0	151.1	H3	111.2	169.4	127.7	36	-2.9
All => JFK		263.6K			31027				4639	0.7
										1.1

TABLE III-3-10

AVERAGE YEARLY ARRIVAL, BLOCK AND CRASHED TIMES
FOR ROUTE SEGMENTS ARRIVING AT LAX

ROUTE	1974				1975				DIFFERENCE			
	FLIGHTS	Avg ATW	Avg GND	Avg BLOCK	FLIGHTS	Avg ATW	Avg GND	Avg BLOCK	FLIGHTS	Avg ATW	Avg GND	Avg BLOCK
ATL => LAX	2577	246.6	17.4	264.0	2443	247.0	19.8	266.8	-134	11.4	2.4	2.7
BOS => LAX	588	127.4	20.5	147.8	656	125.3	20.0	145.3	68	-2.1	-0.5	-2.5
CLE => LAX	1298	267.4	14.7	282.1	1184	268.3	13.7	242.0	-114	11.9	-1.0	-0.1
DEN => LAX	3041	113.7	10.7	127.6	3403	113.7	14.7	128.4	362	0.1	0.7	0.4
DFW => LAX	4211	162.4	14.7	177.1	4510	162.1	14.0	177.0	308	-0.3	0.2	-0.1
DTW => LAX	1205	252.3	15.7	268.0	1501	254.4	14.2	268.6	296	2.1	-1.5	0.5
EMB => LAX	953	523.6	17.0	540.6	1289	521.6	17.0	538.6	336	-2.0	-0.1	-2.1
JFK => LAX	3419	317.4	24.8	342.2	4232	316.9	24.9	341.8	413	-0.5	0.1	-0.4
MIA => LAX	401	293.0	22.9	315.9	406	297.0	20.0	307.3	5	-6.0	-2.6	-0.6
MSP => LAX	1294	195.7	16.1	211.8	2371	196.4	15.7	212.2	1077	0.7	-0.3	0.4
MSY => LAX	705	213.8	13.8	227.6	881	214.1	15.3	229.4	176	0.3	1.5	1.8
NRN => LAX	6575	224.1	21.3	245.4	8060	222.9	21.3	244.2	1496	-1.2	-0.0	-1.2
PHL => LAX	1376	310.2	17.6	327.8	1426	307.5	18.7	326.2	50	-2.7	1.0	-1.7
PIT => LAX	236	266.7	18.1	284.8	361	268.1	16.5	284.5	125	1.4	-1.6	-0.3
SEA => LAX	2021	121.2	13.0	134.2	3517	120.2	13.0	133.2	1496	-1.0	-0.0	-1.0
SFO => LAX	9367	522.4	16.1	68.4	13671	51.6	15.5	67.0	4504	-0.8	-0.6	-1.4
STL => LAX	1730	206.6	16.9	223.5	3094	207.9	15.3	223.2	1364	1.3	-1.0	-0.2
ALL => LAX	40995	53025			12028	-0.5	-0.1	-0.4				

TABLE III-3-11

AVERAGE YEARLY AIR, RAIL, AND GROUND TIMES
FOR ROUTE SEGMENTS ARRIVING AT LCA

ROUTE	1974				1975				DIFFERENCE			
	FLIGHTS	Avg. ATR	Avg. GND	Avg. RAIL	FLIGHTS	Avg. ATR	Avg. GND	Avg. RAIL	FLIGHTS	Avg. ATR	Avg. GND	Avg. RAIL
ATL => LCA	3763	107.5	16.7	117.2	4203	98.3	16.6	115.0	440	-2.2	-0.0	-2.2
HKG => LCA	11537	41.0	15.6	57.5	11418	41.3	15.7	57.0	-110	-0.5	0.1	-0.5
RLF => LCA	2688	65.0	12.4	78.0	3458	64.1	11.9	76.0	814	-1.5	-0.5	-2.0
NCA => LCA	10767	44.5	14.9	59.3	10280	43.7	14.3	58.0	-487	-0.6	-0.7	-1.2
NFM => LCA	2459	165.6	14.9	180.5	2758	164.6	14.5	179.1	299	-1.0	-0.5	-1.4
NTA => LCA	5152	71.2	14.3	85.5	5013	71.8	13.7	85.5	-139	0.6	-0.6	-0.1
MTA => LCA	5220	141.7	17.1	158.8	5204	141.6	15.9	157.6	-14	-0.0	-1.2	-1.2
MSP => LCA	1622	129.7	15.2	144.9	1740	127.9	15.8	143.7	118	-1.8	0.6	-1.2
MSY => LCA	717	142.5	12.9	155.4	827	141.5	11.6	153.1	110	-1.0	-1.4	-2.3
MHD => LCA	7623	95.3	21.6	116.9	10077	94.1	20.2	114.3	2454	-1.2	-1.4	-2.6
PHL => LCA	151	25.5	15.8	41.3	70	28.6	17.5	40.9	-61	3.1	-3.5	-0.4
PIT => LCA	3723	58.0	12.5	70.5	4370	54.7	11.7	66.5	647	-3.3	-0.7	-0.0
STL => LCA	1854	115.9	15.8	129.7	2182	112.2	15.4	127.6	328	-1.8	-0.4	-2.2
ATL => LCA					5758?				4370	-1.0	-0.6	-1.6

TABLE III-3-12

AVERAGE YEARLY AIR, BLOCK AND GROUND TRAFFIC
FOR RUMBLE STRIPMENTS ARRIVING AT MIA

ROUTE	1970			1975			DIFFERENCE		
	FITTS	Avg Air	Avg Ground	FITTS	Avg Air	Avg Ground	FITTS	Avg Air	Avg Ground
ATL => MIA	4745	80.0	17.8	97.8	80.1	17.4	47.5	85.4	0.1
RNS => MIA	1547	161.6	16.7	178.4	161.9	161.4	15.7	177.4	272
RLF => MIA	823	136.9	13.7	150.6	107.0	139.3	13.7	153.0	247
DCA => MIA	2187	125.7	14.7	138.4	241.9	122.5	14.0	136.5	232
NFW => MIA	1930	135.6	15.5	149.2	178.0	136.3	12.6	148.9	150
DTW => MIA	1150	149.7	15.7	153.4	122.0	140.6	12.2	152.8	70
FWD => MIA	1057	142.1	16.0	158.1	205.1	144.1	14.8	158.6	94
JFK => MIA	5990	142.9	21.1	164.0	421.4	142.9	21.7	164.6	228
IAX => MIA	411	252.0	18.0	270.0	51.0	255.9	17.9	271.8	99
LGA => MIA	2812	145.4	20.1	165.5	244.2	145.6	19.0	164.6	70
MSP => MIA				57	178.0	15.4	193.4		
MSY => MIA	1680	85.6	11.4	98.0	182.7	86.3	11.1	97.4	138
NRN => MIA	2407	144.2	20.8	165.0	330.4	147.1	19.4	166.9	401
PHL => MIA	2111	132.7	16.4	147.1	189.7	111.2	14.9	148.0	214
PIT => MIA	955	130.9	11.0	143.0	1139	110.6	13.5	148.2	204
SFO => MIA	217	280.7	20.8	310.5	271	240.5	18.2	298.7	54
STL => MIA	845	153.5	17.8	146.2	1169	135.7	12.1	145.8	323
All => MIA		312.9			32848			2579	0.5
									-0.6
									-0.1

TABLE III-3-13
AVERAGE CARRY AIR, BLOCK AND GROUND TIMES
FOR FLIGHT SEGMENTS ARRIVING AT MSP

ROUTE	1974				1975				DIFFERENCE			
	FLIGHTS	Avg AIR	Avg GND	Avg BLOCK	FLIGHTS	Avg AIR	Avg GND	Avg BLOCK	FLIGHTS	Avg AIR	Avg GND	Avg BLOCK
ATL => MSP	1610	121.4	13.8	138.1	2050	120.2	14.9	139.0	411	-0.2	1.1	0.9
RIS => MSP	488	156.8	15.2	172.0	649	157.2	15.7	172.9	165	0.4	0.5	0.9
CLF => MSP	445	91.0	12.9	103.9	894	90.8	13.1	104.0	449	-0.2	0.2	0.1
DCA => MSP	1397	130.8	15.1	145.8	1580	132.0	16.4	148.4	-17	1.2	1.3	2.5
DFW => MSP	1532	86.2	10.4	96.6	2595	86.0	10.7	96.7	1663	-0.2	0.3	0.1
NFW => MSP	803	111.5	13.1	124.6	960	110.1	12.4	122.5	166	-1.4	-0.7	-2.1
DTW => MSP	604	78.5	14.7	92.6	925	78.8	13.8	92.6	321	0.4	-0.4	-0.0
JFK => MSP	171	147.0	21.4	168.8	274	150.9	20.2	171.1	-97	3.9	-1.6	2.4
LAX => MSP	1246	177.4	15.9	193.3	2570	177.3	16.2	193.5	1084	-0.1	0.3	0.7
LGA => MSP	1509	143.5	19.6	162.9	1700	143.9	18.3	162.2	200	0.7	-1.4	-0.7
HIA => MSP	54	200.3	14.4	214.7								
ORH => MSP	5435	56.5	19.8	75.3	7480	55.5	18.7	74.2	1645	0.0	-1.1	-1.1
PHL => MSP	425	140.1	15.2	155.3	570	140.5	15.0	155.5	145	0.4	-0.2	0.2
SEA => MSP	641	159.0	13.9	172.0	948	160.3	14.0	174.3	307	1.5	0.1	1.4
SFO => MSP	1036	180.9	13.6	194.5	1756	181.6	15.4	197.1	700	0.7	1.9	2.6
STL => MSP	878	65.3	11.9	77.2	1048	65.6	11.9	77.5	170	0.5	-0.0	0.3
ATL => MSP	14465				25453				1768	0.2	-0.1	0.1

TABLE III-3-14

AVG/REY YEARLY AIR, RAIL, AND GROUND TRAVELS
FOR RAIL/SEGMENTS ARRIVING AT MSY

ORIGIN	FLIGHTS	1974			1975			DIFFERENCE		
		Avg ATM	Avg GND	Avg RAIL	Flights	Avg ATM	Avg GND	Avg RAIL	Avg ATM	Avg GND
ATL \Rightarrow MSY	5637	63.4	15.	7A.R	4043	60.3	15.6	79.9	406	0.9
BOS \Rightarrow MSY	245	179.1	16.3	195.3	350	185.6	16.2	199.8	114	4.5
CLF \Rightarrow MSY					35	131.2	13.9	145.1		-0.1
DEN \Rightarrow MSY	363	125.0	10.0	135.1	286	125.9	11.1	137.0	-77	0.8
DFW \Rightarrow MSY	3216	59.6	12.4	72.0	3927	59.5	12.1	71.6	711	-0.2
LAX \Rightarrow MSY	5A	122.7	13.0	135.7	9	130.3	13.0	143.3	-49	7.7
DTW \Rightarrow MSY					250	152.4	13.6	166.0	-76	4.5
FAR \Rightarrow MSY	326	147.8	16.2	164.0					-2.6	1.9
JFK \Rightarrow MSY	1372	155.0	22.3	177.7	141A	156.4	21.5	177.9	46	1.1
LAX \Rightarrow MSY	46A	187.0	18.7	206.6	443	187.5	15.1	202.6	-25	-0.4
IGA \Rightarrow MSY	437	160.9	16.8	177.7	412	162.2	16.7	178.9	-25	1.3
MIA \Rightarrow MSY	1A12	87.3	14.8	112.1	1A66	97.8	14.3	112.1	54	0.5
MRO \Rightarrow MSY	94A	105.9	20.2	126.1	980	107.2	17.4	124.6	54	1.3
PHL \Rightarrow MSY	620	106.3	12.7	159.0	71A	147.2	13.4	160.6	80	0.9
PIT \Rightarrow MSY	416	126.1	11.9	137.9	650	126.9	12.0	138.9	214	0.8
SFO \Rightarrow MSY	1A0	211.6	14.7	226.5	90	205.1	16.0	221.1	-81	-6.5
STL \Rightarrow MSY	720	133.6	9.7	93.3	690	83.4	9.5	97.9	-30	-0.2
ATL \Rightarrow MSY									16165	0.3
									1340	0.7
									14825	-0.4

TABLE III-3-15

AVERAGE FAIRLY ATPLBLOCK AND GROUND TIMES
FOR ROUTE SEGMENTS ARRIVING AT (RD)

ROUTE	FLIGHTS	1974			1975			DIFFERENCE		
		Avg ATR	Avg GND	Avg BLOCK	Avg ATR	Avg GND	Avg BLOCK	Avg GND	Avg BLOCK	
ATL => (RD)	4424	95.5	17.5	111.0	4488	89.7	108.4	464	-3.8	1.2
HDS => (RD)	4105	137.4	20.5	158.0	4627	132.3	152.0	522	-5.1	-0.9
TLF => (RD)	2821	83.5	16.8	80.3	5504	60.7	78.3	681	-2.9	0.8
DCA => (RD)	6251	104.3	18.5	122.8	6084	101.0	118.7	1033	-3.3	-0.8
DEN => (RD)	5002	114.6	15.1	120.8	6330	112.8	128.6	1328	-1.8	0.6
NFM => (RD)	6165	111.4	16.1	127.5	6169	107.5	123.3	196	-3.9	-0.3
NTW => (RD)	5108	49.4	16.8	66.2	6251	48.0	64.6	1143	-1.5	-0.1
FAR => (RD)	3281	119.6	20.2	150.7	5665	115.8	135.6	544	-3.8	-0.4
JFK => (RD)	2455	118.4	24.8	143.2	3578	116.2	25.2	141.4	1123	-2.3
LAX => (RD)	7164	205.2	19.2	224.4	4114	202.5	19.4	221.9	948	-2.7
IGA => (RD)	7058	119.1	25.8	144.9	10026	115.9	24.3	140.2	2068	-3.2
HIA => (RD)	2543	164.7	16.0	180.7	2920	159.9	16.9	176.8	377	-4.8
NSP => (RD)	5672	58.5	17.2	75.7	6951	55.4	17.9	73.4	1279	-3.0
MSY => (RD)	911	123.5	9.8	133.3	1037	114.8	12.3	127.0	126	-8.8
PHL => (RD)	2976	112.6	20.4	133.0	4354	108.7	19.8	128.4	1382	-3.9
PFT => (RD)	6381	76.3	14.4	90.7	7449	73.0	13.9	86.9	1068	-3.3
SEA => (RD)	1998	201.6	18.1	210.7	2798	197.2	18.7	215.4	800	-4.4
SFO => (RD)	4491	215.6	21.4	237.0	5607	212.4	20.8	233.2	1116	-3.8
STL => (RD)	5795	53.1	11.3	64.5	6735	49.6	12.5	62.0	940	-3.6
ATL => (RD)									103090	17386
										-3.3
										-0.0
										-3.1

TABLE III-3-16

AVG. YEARLY AT&T BLOCK AND GROUND TIMES
FOR ROUTE SEGMENTS ARRIVING AT PHL

ROUTE	FLIGHTS	1971			1975			DIFFERENCE		
		Avg AT&T	Avg GND	Avg BLOCK	Avg AT&T	Avg GND	Avg BLOCK	Avg AT&T	Avg GND	Avg BLOCK
ATL => PHL	5634	87.9	17.2	105.1	4200	87.5	17.8	105.3	571	-0.4
RNS => PHL	6921	57.1	14.1	71.2	6150	55.1	14.5	69.6	-762	-2.0
CLE => PHL	1550	56.1	16.0	72.2	1765	56.5	15.9	72.4	235	0.4
DCA => PHL	1180	31.3	11.5	42.0	1053	31.0	14.0	45.0	-836	-0.3
NEN => PHL	453	140.8	16.1	196.9	420	142.8	18.0	200.9	-4	-2.0
NFW => PHL	921	154.6	18.0	172.6	1145	155.4	17.4	172.8	222	0.8
NTW => PHL	1412	66.0	15.6	81.6	2076	66.5	14.9	81.4	664	0.6
FWR => PHL	1701	26.8	15.2	41.9	1561	27.8	15.5	43.3	-140	1.0
JFK => PHL	1311	20.9	21.5	51.4	1973	28.8	24.2	53.1	662	-1.1
LAX => PHL	1242	267.2	18.1	246.3	1593	268.4	18.9	287.4	351	1.2
LGA => PHL	268	29.2	17.9	47.1	539	29.0	18.5	47.5	271	-0.3
WIA => PHL	1866	129.2	14.9	140.1	1832	129.9	15.1	145.0	-34	0.7
WSB => PHL	460	125.3	16.2	159.6	624	121.7	18.2	139.9	155	-1.7
MSY => PHL	665	133.0	10.8	144.7	722	134.0	11.0	144.9	37	0.1
MHD => PHL	2847	48.9	21.5	110.4	3756	89.0	19.9	108.9	909	0.1
PIT => PHL	6082	46.2	11.0	57.2	6404	45.4	11.2	56.6	322	-0.8
SFO => PHL	582	278.9	20.1	299.7	819	240.5	19.7	300.2	237	1.6
STL => PHL	608	101.2	16.6	117.8	739	101.2	16.5	117.7	131	0.0
ALL => PHL	74405	37304	34405	37304	2993	37304	34405	37304	-0.1	-0.1

TABLE III-3-17

AVGFLAGE YEARLY AIR/HLUCK AND GROUND TRAFFIC
FOR ROUTE SEGMENTS ARRIVING AT PIT

ROUTE	1974			1975			DIFFERENCE			
	FLIGHTS	Avg ATH	Avg GND	FLIGHTS	Avg ATH	Avg GND	FLIGHTS	Avg ATH	Avg GND	
ATL => PIT	1494	73.7	17.2	96.9	2547	72.7	17.2	89.9	60.1	-1.0
BNA => PIT	1753	79.4	13.2	93.0	2104	77.1	13.1	90.1	351	-2.9
CLF => PIT	2622	26.4	12.9	39.3	2662	24.6	12.0	36.6	140	-0.9
DCA => PIT	1609	39.5	15.7	55.2	2049	39.6	16.5	56.1	440	0.9
DEN => PIT	100	155.6	16.7	172.3	187	148.6	13.3	161.8	43	-3.4
NFM => PIT	196	130.4	16.2	146.6	498	130.4	16.6	147.1	198	0.5
NYC => PIT	2245	57.5	15.4	50.7	2601	35.9	11.9	47.9	316	-1.5
FHR => PIT	2700	58.0	13.7	71.7	2435	56.4	13.3	69.7	135	-0.4
TKK => PIT	174	58.2	10.0	78.1	681	59.2	15.6	75.0	6	-3.0
LAX => PIT	210	233.1	18.3	251.4	367	233.7	16.1	249.9	152	-2.2
IGA => PIT	564	60.4	17.9	78.1	4551	57.7	17.0	74.7	905	-0.9
MIA => PIT	935	131.9	16.0	146.6	1141	131.2	14.9	146.1	206	-0.7
MSY => PIT	875	113.5	13.8	127.4	685	112.2	12.9	125.1	210	-0.9
ORO => PIT	6308	59.1	10.7	77.8	7156	57.4	17.5	74.9	808	-1.1
PHL => PIT	5877	49.1	13.0	62.1	5604	46.7	13.4	60.1	183	-2.4
SFO => PIT	143	255.7	20.0	276.1	156	253.4	17.6	271.0	13	-2.3
STL => PIT	1587	75.0	11.6	88.5	2168	72.2	11.9	84.2	581	-0.4
SLC => PIT	33510	38074	33510	38074	4566	38074	33510	38074	4566	-2.3

TABLE III-3-18

AVG TIME OF DAYLY AIR, BLOCK AND GROUND TIMES
FOR 4 HOURS SEGMENTS ARRIVING AT SEA

ROUTE	FLIGHTS	1974		1975		DIFFERENCE		AVG BLOCK
		Avg Air	Avg Ground	Avg Air	Avg Ground	Flights	Avg Air	
HNG => SFA	740	121.7	14.7	335.9				
NFN => SFA	1490	136.5	12.1	148.6	2135	137.4	150.7	243
NFM => SFA	732	216.0	12.3	229.0	215.5	12.3	227.8	83
TFK => SFA	657	314.4	22.7	337.5	315.3	25.1	339.3	182
LAX => SFA	1977	125.2	13.3	134.5	3120	125.4	134.8	1152
MSP => SFA	RPA	145.5	15.6	199.1	1271	180.7	200.1	443
NNN => SFA	1923	223.9	22.9	246.8	2902	223.7	214	245.1
SFO => SFA	5121	60.8	14.2	105.0	5753	60.8	134	170.2
STL => SFA	AHA	271.1	12.2	237.2	354	223.0	12.2	235.2
All => SFA					16694	0.1	0.3	-0.1

TABLE III-3-19

AVERAGE YEARLY AIR, BLOCK AND GROUND TIMES
FOR ROUTE SEGMENTS ARRIVING AT SFO

ROUTE	1974			1975			DIFFERENCE		
	FLIGHTS	Avg ATR	Avg R-N	FLIGHTS	Avg ATR	Avg R-N	FLIGHTS	Avg GND	Avg BLOCK
ATL => SFO	498	269.4	17.0	286.4	661	261.0	21.2	282.3	163
HNL => SFO	465	317.3	21.7	359.0	690	334.9	20.0	355.0	225
CLF => SFO	235	279.3	15.6	264.9	341	279.8	14.1	293.9	106
DEN => SFO	1853	127.9	12.0	140.8	2999	129.2	14.1	142.3	1146
DFW => SFO	5091	148.7	15.1	203.9	3225	148.1	15.9	204.1	134
DIA => SFO	1184	264.0	14.6	282.6	1289	267.7	15.2	280.9	105
EWR => SFO	400	535.3	16.4	351.7	511	333.9	17.1	351.0	111
JFK => SFO	2455	535.8	21.2	357.0	5225	330.5	23.6	350.1	790
LAX => SFO	10330	51.5	13.8	65.0	14534	52.1	16.0	66.0	4199
MIA => SFO	217	327.3	18.1	345.4	272	319.5	17.4	336.9	55
MSP => SFO	968	205.0	14.3	219.3	1725	205.1	14.6	219.7	757
MSY => SFO	193	246.4	12.7	259.1	232	240.4	14.1	254.6	39
NRT => SFO	4101	237.8	22.0	259.8	5167	237.6	21.0	258.6	976
PHL => SFO	479	330.0	19.3	349.4	703	327.3	18.9	346.2	224
PIT => SFO	143	291.2	16.2	307.0	155	290.0	13.4	303.3	12
SEA => SFO	2764	94.1	12.0	106.1	5328	92.5	11.0	104.4	2564
STL => SFO	493	222.8	16.7	239.5	808	222.0	14.2	238.2	315
All. => SFO									11921
									41969
									29948

TABLE III-3-20

AVERAGE YEARLY AIR, BLOCK AND GROUND TIMES FOR QUINTE SEGMENTS ARRIVING AT STL

WAVELET	DIFFERENCE											
	FITTES	Avg ATR	Avg GND	Avg BLICK	FITTES	Avg ATR	Avg GND	Avg BLICK	FITTES	Avg ATR	Avg GND	Avg BLICK
STL & STL => STL	2715	73.1	10.5	87.6	3187	73.9	10.5	88.4	472	7.8	-0.1	0.1
US & STL => STL	454	150.6	16.8	167.4	1013	149.3	16.5	165.9	559	-1.3	-0.3	-1.6
LF & STL => STL	1466	70.3	12.2	86.5	2273	76.1	11.0	87.1	807	1.6	-1.2	0.6
CA & STL => STL	1237	107.8	14.3	122.1	2152	108.7	14.2	122.8	915	0.9	-0.2	0.1
EN & STL => STL	2011	97.8	13.3	111.0	2169	98.3	13.1	111.0	158	0.5	-0.2	0.4
EW & STL => STL	1997	76.3	12.8	89.1	2917	76.8	11.9	88.7	920	0.5	-0.9	-0.1
SW & STL => STL	830	70.1	13.0	83.0	1200	71.3	11.4	82.7	370	1.2	-1.5	-0.1
NW & STL => STL	365	126.2	16.9	143.2	706	128.4	16.2	142.5	341	2.1	-2.8	-0.1
EK & STL => STL	228	179.2	24.5	153.7	506	128.6	27.6	156.2	278	-0.6	3.1	2.0
LXK & STL => STL	1590	182.6	17.3	199.9	2855	183.6	16.2	199.9	1265	1.0	-1.1	-0.1
LGK & STL => STL	1876	129.9	20.4	149.3	2221	131.5	20.3	151.8	345	2.6	-0.1	2.1
MHMK & STL => STL	746	144.5	13.2	157.7	1049	144.7	12.6	157.2	303	0.2	-0.6	-0.1
MSDP & STL => STL	446	83.2	11.9	75.1	1187	85.7	11.3	77.0	241	2.5	-0.6	1.4
MSY & STL => STL	657	83.6	9.4	93.0	623	84.3	9.4	93.7	14	0.8	-0.1	0.1
MRRD & STL => STL	5493	42.9	18.6	61.7	6140	45.5	16.6	62.1	647	2.6	-2.2	0
PHL & STL => STL	764	117.9	17.5	135.3	988	118.7	15.7	130.4	224	0.8	-1.7	-0.1
PIT & STL => STL	1391	83.6	10.4	94.0	2012	84.6	10.4	95.0	621	0.9	0.0	1
SFA & STL => STL	354	103.1	13.6	206.6	361	192.9	13.1	206.1	7	-0.2	-0.4	-0.1
SFI => STL	705	104.1	17.1	903	195.7	16.3	211.2	198	1.6	-0.8	-0.1	

25809

34462

RHS7 1.3 - 0.9 0.5

TABLE III-4-1

AVERAGE ATRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT ATL
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN	1809	0:21	3537	0:17
FEB	3329	0:14	3674	0:17
MAR	3477	0:12	3913	0:14
APR	3259	0:11	3759	0:11
MAY	3493	0:12	4080	0:12
JUN	3166	0:13	3750	0:10
JUL	3176	0:12	3839	0:11
AUG	4126	0:13	4032	0:10
SEP	3540	0:14	3566	0:12
OCT	3537	0:10	3320	0:13
NOV	3694	0:13	3891	0:13
DEC	3410	0:15	3366	0:14
TOTAL	40016	0:13	44727	0:13

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-2

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT BOS
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	AVG AIR DELAY	FLIGHTS	AVG AIR DELAY
JAN	2157	0:06	3722	0:05
FEB	3472	0:09	3762	0:07
MAR	3694	0:06	3790	0:06
APR	3474	0:06	3588	0:07
MAY	3421	0:08	4302	0:09
JUN	3204	0:08	3376	0:10
JUL	3035	0:09	3246	0:11
AUG	4567	0:09	4329	0:09
SEP	3825	0:08	3619	0:08
OCT	3805	0:08	3536	0:07
NOV	4110	0:08	4035	0:07
DEC	3831	0:08	3434	0:10
TOTAL	42575	0:08	44739	0:08

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-3

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT CLE
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	AVG AIR DELAY	FLIGHTS	AVG AIR DELAY
JAN	435	0:02	2371	0:06
FEB	2297	0:06	2379	0:07
MAR	2526	0:05	2534	0:06
APR	2454	0:04	2434	0:05
MAY	1258	0:04	2708	0:05
JUN	1060	0:04	2347	0:04
JUL	1074	0:04	2345	0:03
AUG	3005	0:04	2689	0:04
SEP	2682	0:05	2456	0:04
OCT	2727	0:05	2079	0:03
NOV	2112	0:05	2633	0:05
DEC	1953	0:05	1813	0:06
TOTAL	23583	0:05	28788	0:05

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-4

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT DCA
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	AVG AIR DELAY	FLIGHTS	AVG AIR DELAY
JAN	2155	0:09	3834	0:07
FEB	3458	0:07	3577	0:07
MAR	3869	0:06	3924	0:07
APR	3808	0:07	3820	0:06
MAY	3593	0:07	4170	0:07
JUN	3146	0:07	3764	0:07
JUL	2935	0:06	3723	0:07
AUG	4065	0:07	3971	0:06
SEP	3769	0:01	3647	0:07
OCT	3935	0:10	3278	0:07
NOV	3379	0:07	3756	0:08
DEC	3219	0:07	3289	0:08
TOTAL	41111	0:08	44753	0:07

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-5

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT DEN
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	AVG AIR DELAY	FLIGHTS	AVG AIR DELAY
JAN	537	0:05	2597	0:08
FEB	2279	0:05	2334	0:07
MAR	2528	0:08	2551	0:08
APR	2417	0:04	2347	0:08
MAY	1085	0:02	2539	0:03
JUN	987	0:02	2162	0:02
JUL	1013	0:00	2225	-0:02
AUG	3058	0:01	2680	0:00
SEP	2627	0:04	2552	0:02
OCT	2548	0:03	2603	0:03
NOV	2345	0:04	2518	0:05
DEC	2433	0:05	2117	0:06
TOTAL	23857	0:04	29425	0:04

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-6

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT DFW
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN			3353	0:13
FEB	2876	0:09	3341	0:12
MAR	2962	0:10	3480	0:13
APR	2858	0:09	3416	0:12
MAY	3503	0:06	3687	0:09
JUN	3208	0:04	3334	0:04
JUL	3172	0:01	3422	0:03
AUG	3935	0:04	3926	0:02
SEP	3412	0:08	3294	0:04
OCT	3543	0:06	3272	0:04
NOV	3531	0:08	3523	0:07
DEC	3347	0:12	3341	0:08
TOTAL	36347	0:07	41389	0:08

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-7

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT DTW
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN	960	0:03	2592	0:06
FEB	2528	0:04	2723	0:05
MAR	2710	0:05	2892	0:04
APR	2540	0:03	2705	0:03
MAY	2290	0:04	2913	0:04
JUN	1861	0:02	2515	0:04
JUL	1831	0:05	2501	0:03
AUG	3576	0:03	3132	0:04
SEP	2930	0:04	2744	0:04
OCT	2892	0:04	1779	0:03
NOV	1961	0:04	2948	0:04
DEC	1636	0:06	2555	0:07
TOTAL	27765	0:04	31999	0:04

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-8

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT EWR
 FROM 19 STUDY AIRPORTS

	-----1974-----		-----1975-----	
	FLIGHTS	AVG AIR DELAY	FLIGHTS	AVG AIR DELAY
JAN	605	0:04	1877	0:03
FEB	1973	0:04	2178	0:04
MAR	2178	0:04	2278	0:05
APR	2105	0:06	2165	0:04
MAY	1610	0:07	2379	0:08
JUN	1454	0:08	2037	0:09
JUL	1326	0:10	1957	0:09
AUG	2450	0:10	2409	0:07
SEP	2063	0:09	1830	0:06
OCT	2071	0:09	1597	0:07
NOV	2065	0:07	2265	0:08
DEC	1757	0:05	1955	0:07
TOTAL	21657	0:07	24927	0:06

-----ALL TIMES ARE IN HOURS AND MINUTES-----

TABLE III-4-9

AVERAGE AIRBORNE DELAYS BY MONTH

SUMMARY OF FLIGHTS ARRIVING AT JFK

FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	AVG AIR DELAY	FLIGHTS	AVG AIR DELAY
JAN	821	0:09	1996	0:09
FEB	2111	0:09	2290	0:08
MAR	2067	0:07	2482	0:10
APR	1865	0:10	2163	0:08
MAY	1534	0:13	2509	0:12
JUN	1441	0:16	2141	0:17
JUL	1319	0:17	2099	0:19
AUG	2376	0:18	2677	0:15
SEP	2024	0:13	2013	0:13
OCT	1866	0:13	1725	0:11
NOV	1875	0:11	2050	0:17
DEC	1836	0:10	1702	0:16
TOTAL	21140	0:12 7	25847	0:13

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE III-4-10

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT LAX
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN	1044	0:24	4120	0:11
FEB	3847	0:12	4066	0:13
MAR	4028	0:15	4406	0:15
APR	3759	0:10	4139	0:16
MAY	2043	0:12	4500	0:06
JUN	1854	0:04	3928	0:06
JUL	1827	-0:01	3960	-0:01
AUG	5013	0:05	4982	0:03
SEP	4402	0:07	4236	0:05
OCT	4441	0:09	4052	0:07
NOV	3569	0:09	4229	0:08
DEC	3507	0:11	3574	0:08
TOTAL	39334	0:09	50192	0:08

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-11

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT LGA
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN	2926	0:07	4500	0:07
FEB	4353	0:07	4224	0:07
MAR	4720	0:06	4622	0:08
APR	4763	0:07	4533	0:06
MAY	4024	0:09	5053	0:09
JUN	3619	0:12	4554	0:10
JUL	3195	0:12	4400	0:10
AUG	5144	0:13	4946	0:09
SEP	4687	0:14	4667	0:08
OCT	4878	0:13	4707	0:07
NOV	4627	0:12	4944	0:15
DEC	4362	0:09	4305	0:13
TOTAL	51298	0:10	55455	0:09

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-12

AVERAGE ATTRBORNE DELAYS BY MONTH

SUMMARY OF FLIGHTS ARRIVING AT MIA

FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN	1503	0:06	2329	0:09
FEB	2287	0:06	2508	0:09
MAR	2585	0:06	2774	0:04
APR	2485	0:04	2518	0:02
MAY	2452	0:04	2527	0:04
JUN	2295	0:06	2461	0:04
JUL	2043	0:05	2503	0:05
AUG	2185	0:06	2511	0:05
SEP	1906	0:06	1705	0:07
OCT	1956	0:04	1586	0:06
NOV	1910	0:07	1947	0:07
DEC	1759	0:07	1755	0:09
TOTAL	25366	0:05	27124	0:06

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-13

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT MSP
 FROM 19 STUDY AIRPORTS

	1974	1975		
	FLIGHTS	Avg ATR DELAY	FLIGHTS	Avg AIR DELAY
JAN	174	0:04	2137	0:06
FEB	1888	0:05	2189	0:04
MAR	2087	0:06	2402	0:04
APR	1970	0:04	2273	0:04
MAY	1549	0:05	2289	0:02
JUN	1207	0:02	2111	0:02
JUL	1224	0:01	2171	0:01
AUG	2462	0:01	2144	0:01
SEP	2264	0:02	2148	0:02
OCT	2350	0:03	1068	0:01
NOV	603	0:03	2131	0:03
DEC	617	0:05	2071	0:06
TOTAL	18395	0:03	25134	0:03

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE III-4-14

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT MSY
 FROM 19 STUDY AIRPORTS

	1974	1975		
	FLIGHTS	AVG ATR DELAY	FLIGHTS	AVG ATR DELAY
JAN	667	0:09	1315	0:11
FEB	1236	0:07	1306	0:09
MAR	1229	0:06	1374	0:08
APR	1090	0:05	1301	0:07
MAY	1438	0:03	1482	0:05
JUN	1508	0:04	1549	0:03
JUL	1183	0:03	1257	0:03
AUG	1350	0:04	1456	0:03
SEP	1075	0:05	1131	0:04
OCT	1156	0:02	1113	0:05
NOV	1325	0:05	1325	0:07
DEC	1221	0:08	1136	0:07
TOTAL	14267	0:05	15545	0:06

----ALL TIMES ARE IN HOURS AND MINUTES----

AB-A039 483 TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MASS F/6 1/2
AIRLINE DELAY TRENDS, 1974-1975. A STUDY OF BLOCK TIME DELAYS, --ETC(U)
MAR 77 H M CONDELL, S M HOROWITZ

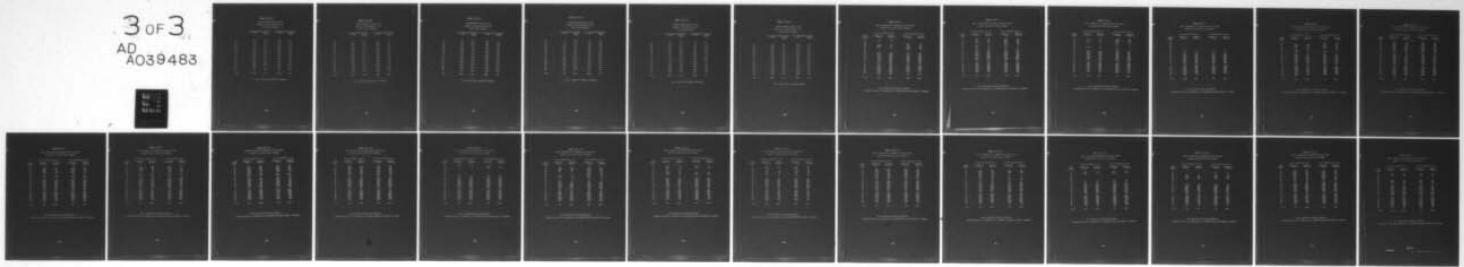
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TABLE III-4-15

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT ORD
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	AVG AIR DELAY	FLIGHTS	AVG AIR DELAY
JAN	2341	0:16	8356	0:20
FEB	7339	0:17	8213	0:18
MAR	8070	0:17	8904	0:14
APR	7748	0:13	8029	0:16
MAY	4742	0:14	9040	0:11
JUN	5992	0:14	7343	0:12
JUL	5990	0:13	7352	0:09
AUG	9849	0:19	9431	0:10
SEP	8494	0:24	8017	0:12
OCT	8502	0:23	7012	0:17
NOV	7832	0:16	8530	0:18
DEC	7435	0:18	6946	0:16
TOTAL	80338	0:18	97172	0:14

---ALL TIMES ARE IN HOURS AND MINUTES---

TABLE III-4-16
 AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT PHL
 FROM 19 STUDY AIRPORTS

	-----1974-----		-----1975-----	
	FLIGHTS	Avg Atm Delay	FLIGHTS	Avg Air Delay
JAN	1207	0:09	3045	0:08
FEB	2798	0:08	2986	0:08
MAR	2673	0:06	2771	0:07
APR	2503	0:07	2660	0:06
MAY	2409	0:11	3343	0:09
JUN	2224	0:10	2892	0:10
JUL	2114	0:11	2906	0:10
AUG	5674	0:11	3748	0:10
SEP	3190	0:10	2802	0:09
OCT	3172	0:10	2542	0:08
NOV	3030	0:09	3005	0:08
DEC	2914	0:09	2449	0:08
TOTAL	32008	0:09	34649	0:09

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-17

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT PIT
 FROM 19 STUDY AIRPORTS

	1974	1975		
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN	936	0:05	3295	0:06
FEB	2870	0:04	3089	0:06
MAR	2573	0:03	2911	0:05
APR	2406	0:03	2703	0:03
MAY	2005	0:04	3424	0:03
JUN	1901	0:04	2845	0:04
JUL	1947	0:06	2848	0:04
AUG	3970	0:07	3433	0:04
SEP	3560	0:09	3187	0:03
OCT	3660	0:07	2979	0:03
NOV	3307	0:07	3295	0:03
DEC	3240	0:07	2899	0:05
TOTAL	72375	0:06	36908	0:04

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-18

AVERAGE ARRIVAL DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT SEA
 FROM 19 STUDY AIRPORTS

	-----1974-----		-----1975-----	
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN	69	0:02	1374	0:11
FEB	1176	0:07	1296	0:06
MAR	1311	0:07	1419	0:05
APR	1251	0:03	1359	0:00
MAY	457	0:02	1515	0:01
JUN	419	-0:04	1447	0:00
JUL	446	-0:07	1450	-0:05
AUG	1663	-0:02	1630	0:00
SEP	1503	-0:00	1429	-0:02
OCT	1488	-0:01	1261	0:04
NOV	924	0:05	1412	0:07
DEC	910	0:08	1012	0:09
TOTAL	11617	0:02	16604	0:03

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-19

AVERAGE AIRBORNE DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT SFO
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	Avg Air Delay	FLIGHTS	Avg Air Delay
JAN	355	0:29	3175	0:11
FEB	3148	0:11	3114	0:12
MAR	3297	0:14	3317	0:13
APR	3111	0:09	3180	0:10
MAY	1075	0:08	3578	0:03
JUN	1014	0:03	3328	0:04
JUL	936	-0:01	3420	-0:00
AUG	4129	0:04	4067	0:03
SEP	3478	0:04	3385	0:03
OCT	3445	0:04	3276	0:07
NOV	2671	0:07	3486	0:08
DEC	2627	0:09	2735	0:08
TOTAL	29287	0:07	40060	0:07

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-4-20

AVERAGE ATMOSPHERIC DELAYS BY MONTH
 SUMMARY OF FLIGHTS ARRIVING AT STL
 FROM 19 STUDY AIRPORTS

	1974		1975	
	FLIGHTS	AVG AIR DELAY	FLIGHTS	AVG AIR DELAY
JAN	895	0:07	2740	0:08
FEB	2006	0:06	2646	0:09
MAR	2169	0:05	2865	0:08
APR	2081	0:04	2644	0:07
MAY	1616	0:04	2985	0:05
JUN	1443	0:03	2680	0:04
JUL	1402	0:03	2660	0:04
AUG	3021	0:04	3131	0:04
SEP	2701	0:05	2737	0:05
OCT	2739	0:04	2738	0:04
NOV	2545	0:05	2880	0:07
DEC	2424	0:07	2895	0:09
TOTAL	25042	0:05	33601	0:06

----ALL TIMES ARE IN HOURS AND MINUTES----

TABLE III-5-1

HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT ATL FROM 19 STUDY AIRPORTS

-----1974-----			-----1975-----	
TOTAL ARRIVAL HOUR	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:11	245		
01				
02			0:10	179
03	0:12	127	0:17	173
04	-0:04	56	-0:08	176
05	0:04	2067	0:05	2264
06			0:13	12
07				
08	0:04	443	0:12	244
09	0:17	3719	0:16	4126
10	0:11	3232	0:16	3031
11	0:15	3823	0:17	4506
12	0:12	1625	0:13	2483
13	0:12	2161	0:13	2034
14	0:11	2444	0:09	2742
15	0:14	4875	0:13	4792
16	0:06	1758	0:06	2707
17	0:12	3084	0:11	3756
18	0:11	1444	0:11	1139
19	0:16	6833	0:13	7849
20	0:07	1211	0:07	760
21	0:11	2861	0:12	3301
22	0:15	31		
23	0:13	5222	0:13	6405
TOTAL	0:13	47261	0:13	52679

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-2
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT BOS FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	-----1974-----		-----1975-----	
	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:04	888	0:05	746
01	0:09	754	0:09	564
02	0:15	161	0:13	742
03	0:11	471	0:07	103
04			0:09	58
05	0:06	160	0:06	76
06	0:13	33		
07	0:06	776	0:08	708
08	0:06	1569	0:09	1635
09	0:09	2568	0:09	2932
10	0:08	2642	0:08	3110
11	0:08	2065	0:08	1763
12	0:07	2669	0:08	2435
13	0:09	2569	0:09	2844
14	0:08	2813	0:08	2998
15	0:07	3005	0:07	3186
16	0:06	2228	0:07	2361
17	0:08	3607	0:07	4300
18	0:10	2560	0:08	2881
19	0:08	3848	0:08	4399
20	0:09	3856	0:09	3557
21	0:07	2682	0:07	2595
22	0:06	1576	0:06	1681
23	0:07	990	0:06	1092
TOTAL	0:08	44490	0:08	46766

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-3
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT CLF FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	1974		1975	
	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:06	225	0:05	254
01			-0:02	37
02	-0:03	219	-0:01	276
03				
04			-0:01	22
05				
06	-0:03	354	0:01	11
07				
08	0:06	581	0:08	1107
09	0:06	1330	0:05	2281
10	0:06	1715	0:06	2601
11	0:03	1136	0:07	851
12	0:03	984	0:02	1164
13	0:05	1458	0:04	2026
14	0:07	1749	0:05	1653
15	0:04	1065	0:06	1424
16	0:04	2663	0:05	2563
17	0:04	1630	0:04	2092
18	0:05	2653	0:04	3832
19	0:03	1833	0:04	2161
20	0:06	2057	0:06	2713
21	0:05	1504	0:06	1215
22	0:07	676	0:05	1106
23	0:05	497	0:04	640
TOTAL	0:05	24334	0:05	30029

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-S-4
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT DCA FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	1974		1975	
	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00				
01				
02				
03				
04				
05				
06				
07	0:08	1179	0:05	905
08	0:11	1872	0:10	2510
09	0:11	3372	0:09	3644
10	0:09	2000	0:10	2388
11	0:05	2136	0:06	2896
12	0:10	1936	0:08	2084
13	0:04	3330	0:05	3913
14	0:06	3090	0:04	2489
15	0:08	3315	0:07	3468
16	0:09	2320	0:08	2869
17	0:08	3098	0:07	2609
18	0:08	2817	0:07	3567
19	0:07	3204	0:06	3524
20	0:07	3758	0:07	4618
21	0:06	3512	0:04	3233
22	0:05	1140	0:05	1317
23	0:09	6		
TOTAL	0:08	42085	0:07	45834

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-5
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT DEN FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	1974		1975	
	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00			0:04	184
01	0:04	358	0:04	432
02	0:02	179	0:02	265
03	-0:02	569	-0:02	604
04	0:02	246	0:03	204
05				
06	0:03	155	0:10	80
07	0:05	14	0:08	8
08	0:05	717	0:04	788
09	0:04	1406	0:04	1697
10	0:02	2049	0:01	2346
11	0:05	1670	0:06	2560
12	0:04	1238	0:05	1165
13	0:05	2765	0:05	3390
14	0:04	1527	0:05	1837
15	0:03	1632	0:03	2471
16	0:05	1169	0:04	1161
17	0:06	1774	0:06	2698
18	0:04	2057	0:03	2377
19	0:05	1948	0:06	2528
20	0:04	1399	0:04	1398
21	0:02	1114	0:03	1288
22	0:03	373	0:02	762
23	0:13	8		
TOTAL	0:04	24361	0:04	30243

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-6
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT DFW FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	-----1974-----		-----1975-----	
	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:05	591	0:04	841
01	0:04	788	0:06	665
02	-0:01	771	0:00	901
03	0:02	1175	0:02	1080
04	0:12	451	0:08	716
05	0:01	1198	-0:01	2344
06	0:01	726	0:08	406
07	0:07	332	0:04	292
08	0:07	627	0:07	939
09	0:09	32	0:18	115
10	0:07	1118	0:04	1103
11	0:09	4241	0:09	5003
12	0:05	2374	0:07	1481
13	0:09	2642	0:09	2972
14	0:07	1645	0:07	2015
15	0:06	2818	0:06	2661
16	0:09	2680	0:09	2983
17	0:08	3432	0:09	4015
18	0:07	2318	0:07	2645
19	0:09	2328	0:11	2061
20	0:06	3728	0:08	4750
21	0:07	2046	0:07	2399
22	0:11	900	0:13	1414
23	0:09	1060	0:09	1009
TOTAL	0:07	40021	0:07	44811

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-7

HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT DTW FROM 19 STUDY AIRPORTS

-----1974-----			-----1975-----		
LOCAL ARRIVAL HOUR	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	
00	0:03	1203	0:02	1075	
01	0:03	316	0:05	195	
02	0:03	154	0:04	476	
03	0:03	62	0:01	41	
04	0:05	313	0:06	482	
05					
06	0:01	617	0:00	428	
07	0:05	475	0:05	654	
08	0:07	746	0:06	1131	
09	0:04	1899	0:04	2135	
10	0:03	1279	0:04	1979	
11	0:04	1321	0:04	1441	
12	0:03	1294	0:03	1831	
13	0:04	2214	0:04	2127	
14	0:05	617	0:04	1162	
15	0:03	1554	0:04	1489	
16	0:05	3072	0:05	4187	
17	0:05	2369	0:05	2235	
18	0:04	1332	0:04	1187	
19	0:03	3295	0:03	3598	
20	0:03	2781	0:04	2835	
21	0:04	925	0:05	1887	
22	0:04	1142	0:03	1007	
23	0:04	999	0:04	436	
TOTAL	0:04	29979	0:04	34019	

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-8
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT FWR FROM 19 STUDY AIRPORTS

-----1974-----		-----1975-----		
LOCAL ARRIVAL HOUR	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:01	670	0:03	737
01	0:05	229	0:06	125
02	0:08	329	0:03	124
03	0:07	2	0:04	241
04	0:03	223	0:02	249
05				
06	0:04	328	0:05	195
07	0:06	155	0:06	166
08	0:07	1048	0:07	1084
09	0:05	1447	0:05	1923
10	0:07	596	0:06	669
11	0:06	1910	0:05	2059
12	0:06	525	0:05	745
13	0:05	666	0:04	667
14	0:07	1318	0:07	1472
15	0:06	1285	0:05	1431
16	0:05	970	0:05	1592
17	0:08	2616	0:10	3038
18	0:15	1088	0:10	1256
19	0:06	1853	0:05	2374
20	0:09	1972	0:07	2237
21	0:08	1811	0:07	2174
22	0:05	1715	0:04	1635
23	0:02	208	0:04	301
TOTAL	0:07	22964	0:06	26498

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-9
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT JFK FROM 19 STUDY AIRPORTS

		-----1974-----		-----1975-----	
LOCAL ARRIVAL HOUR	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	
00	0:10	2110	0:10	1984	
01	0:07	794	0:06	676	
02	0:08	1066	0:06	1277	
03	0:06	514	0:03	321	
04	0:04	257	0:07	158	
05	0:14	63			
06	0:07	1464	0:11	1904	
07	0:08	617	0:07	1055	
08	0:09	316	0:09	612	
09	0:09	575	0:09	772	
10	0:09	560	0:14	130	
11	0:09	345	0:05	258	
12	0:09	1148	0:06	890	
13	0:08	876	0:09	872	
14	0:07	1186	0:08	1931	
15	0:13	2281	0:11	1654	
16	0:14	2626	0:16	3442	
17	0:16	2702	0:19	4493	
18	0:19	1099	0:17	2086	
19	0:14	2180	0:14	2732	
20	0:15	1817	0:17	1658	
21	0:12	830	0:11	889	
22	0:09	355	0:09	645	
23	0:07	607	0:08	587	
TOTAL	0:12	26388	0:12	31027	

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-10
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT LAX FROM 19 STUDY AIRPORTS

		-----1974-----		-----1975-----	
LOCAL ARRIVAL HOUR	AVERAGE ARR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	
00	0:13	1164	0:08	1369	
01	0:19	1334	0:18	1687	
02	0:21	1155	0:21	953	
03	0:11	433	0:12	599	
04	0:13	906	0:10	1510	
05	0:08	672	0:14	730	
06	0:15	812	0:13	615	
07	0:10	182	0:12	62	
08	0:07	880	0:07	1747	
09	0:08	1849	0:05	1904	
10	0:08	2139	0:06	3442	
11	0:09	3943	0:08	3744	
12	0:08	2429	0:07	3607	
13	0:06	1657	0:06	1874	
14	0:06	3229	0:06	4207	
15	0:11	1940	0:10	2882	
16	0:07	1352	0:05	2307	
17	0:13	1260	0:14	1413	
18	0:09	3035	0:08	4323	
19	0:06	3165	0:05	3590	
20	0:06	2935	0:07	4493	
21	0:11	2839	0:09	2485	
22	0:11	476	0:09	1522	
23	0:05	1209	0:02	1956	
TOTAL	0:09	40995	0:08	53023	

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-11
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT LGA FROM 19 STUDY AIRPORTS

		-----1974-----		-----1975-----	
LOCAL ARRIVAL HOUR	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	
00	0:02	525	0:03	593	
01			0:03	9	
02					
03					
04					
05					
06					
07	0:08	1073	0:06	1052	
08	0:07	1715	0:08	1803	
09	0:15	3463	0:11	3683	
10	0:10	3608	0:08	3303	
11	0:08	3364	0:09	3970	
12	0:08	2910	0:07	3409	
13	0:08	3750	0:07	2995	
14	0:07	4320	0:06	4914	
15	0:09	3494	0:08	8487	
16	0:10	3597	0:09	3180	
17	0:12	3366	0:11	4709	
18	0:14	3233	0:12	3594	
19	0:14	3976	0:12	4406	
20	0:13	4075	0:09	4876	
21	0:10	3914	0:07	4415	
22	0:06	2403	0:05	1824	
23	0:04	426	0:05	400	
TOTAL	0:10	53212	0:09	57582	

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-12
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT MIA FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	1974		1975	
	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:02	2268	0:04	2468
01	0:04	335	0:07	642
02	0:03	354	0:01	541
03	0:05	197	0:03	241
04			0:13	75
05			0:01	70
06	-0:23	13	-0:30	12
07	0:03	319	0:01	321
08	0:11	39	0:07	65
09				
10	0:00	89	0:01	144
11	0:06	3422	0:07	3506
12	0:07	5374	0:06	6543
13	0:07	1675	0:06	1711
14	0:06	1653	0:06	1735
15	0:06	2737	0:06	2638
16	0:03	1486	0:03	1158
17	0:04	1644	0:06	1728
18	0:09	249	0:05	652
19	0:07	1211	0:06	1221
20	0:04	3296	0:05	3537
21	0:06	1161	0:08	430
22	0:05	658	0:04	1176
23	0:05	2080	0:05	2333
TOTAL	0:05	30269	0:05	32808

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-13
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT MSP FROM 19 STUDY AIRPORTS

-----1974-----			-----1975-----	
LOCAL ARRIVAL HOUR	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS
00	0:02	71	0:03	90
01	0:03	169	0:03	262
02	0:04	27		
03				
04	0:03	177		
05	0:04	97	0:04	305
06	0:01	696	-0:01	1232
07				
08	0:04	358	0:04	414
09	0:06	765	0:05	1246
10	0:02	1519	0:02	1665
11	0:04	1403	0:03	1831
12	0:05	297	0:05	588
13	0:02	1223	0:03	1449
14	0:03	1791	0:03	2244
15	0:02	541	0:00	1070
16	0:05	1958	0:06	2155
17	0:03	1235	0:03	2244
18	0:02	1848	0:03	2643
19	0:04	2084	0:05	2267
20	0:06	535	0:04	813
21	0:02	1090	0:01	1761
22	0:03	516	0:03	905
23	-0:05	270	-0:05	209
TOTAL	0:03	18665	0:03	25433

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-14
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT MSY FROM 19 STUDY AIRPORTS

-----1974-----			-----1975-----	
LOCAL ARRIVAL HOUR	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS
00	0:08	347	0:04	360
01	0:03	75	0:09	28
02				
03	0:05	313	0:05	188
04	0:11	89	0:12	197
05				
06	0:09	261	0:07	240
07				
08	0:06	464	0:07	664
09	0:07	* 223	0:08	268
10	0:08	1037	0:08	1233
11	0:05	1357	0:07	1177
12	0:06	895	0:06	1635
13	0:00	854	0:00	750
14	0:10	1337	0:09	1348
15	0:00	1511	0:03	1458
16	0:05	1047	0:05	1178
17	0:07	596	0:09	864
18	0:01	1065	0:03	736
19	0:03	583	0:03	901
20	0:07	1009	0:07	1803
21	0:13	81		
22	0:02	197	0:06	517
23	0:03	584	0:06	620
TOTAL	0:05	14825	0:06	16165

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-15
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT ORD FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	1974		1975	
	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:07	1180	0:07	771
01	0:09	1367	0:07	1762
02	0:09	859	0:09	735
03	0:09	1190	0:08	1404
04	0:05	446	0:03	708
05	0:05	1786	0:04	2857
06	0:05	1249	0:03	934
07	0:08	1375	0:06	1926
08	0:15	3320	0:12	3851
09	0:19	5492	0:18	7070
10	0:12	3752	0:10	4960
11	0:13	6249	0:11	6794
12	0:16	5188	0:15	5684
13	0:15	5536	0:12	6850
14	0:12	4704	0:11	5589
15	0:15	5470	0:15	6715
16	0:22	6204	0:17	7576
17	0:27	6385	0:22	6928
18	0:27	4985	0:18	5767
19	0:28	5959	0:18	8979
20	0:24	5862	0:15	7021
21	0:14	3501	0:11	3997
22	0:08	1337	0:07	1484
23	0:07	2329	0:06	2728
TOTAL	0:17	45704	0:14	103090

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-16
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT PHL FROM 19 STUDY AIRPORTS

-----1974-----			-----1975-----	
LOCAL ARRIVAL HOUR	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:05	656	0:07	803
01	0:03	204	0:05	269
02	0:07	652	0:06	628
03	0:05	119		
04	0:03	93	0:03	166
05	0:06	64		
06	0:12	94	0:10	136
07	0:08	1227	0:07	809
08	0:11	1411	0:10	1850
09	0:12	3020	0:11	2879
10	0:13	754	0:09	1523
11	0:10	2354	0:10	2300
12	0:10	1599	0:09	1981
13	0:10	1672	0:08	1630
14	0:09	2291	0:08	2023
15	0:08	2171	0:08	2600
16	0:08	2398	0:07	2883
17	0:10	2430	0:11	2121
18	0:10	1942	0:11	2016
19	0:08	2719	0:07	3083
20	0:07	2026	0:07	2526
21	0:08	2282	0:08	2931
22	0:07	1422	0:07	1362
23	0:08	821	0:07	789
TOTAL	0:09	34405	0:08	37398

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-17
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT PIT FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	1974		1975	
	AVERAGE ATR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:02	176	0:01	139
01	0:08	33	-0:01	128
02				
03				
04				
05				
06				
07	0:05	530	0:05	645
08	0:07	2764	0:06	2730
09	0:08	2160	0:06	2708
10	0:08	1390	0:06	1731
11	0:06	1772	0:04	1843
12	0:06	1697	0:03	2072
13	0:04	2285	0:02	2184
14	0:05	2460	0:04	2091
15	0:05	1216	0:06	1282
16	0:06	3286	0:04	4724
17	0:07	2059	0:06	2268
18	0:07	2667	0:05	1804
19	0:05	1930	0:04	3175
20	0:05	2671	0:04	2747
21	0:06	1798	0:03	2934
22	0:05	1987	0:03	2333
23	0:04	629	0:06	538
TOTAL	0:06	33510	0:04	38076

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE ATR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-18
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT SEA FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	-----1974-----		-----1975-----	
	AVERAGE ARR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00				
01				
02				
03	0:03	191	0:05	409
04	0:03	272	0:02	388
05	0:06	228	0:07	163
06				
07				
08				
09	0:07	314	0:06	773
10	0:04	956	0:06	1038
11	-0:01	878	0:02	984
12	-0:02	1647	-0:00	2781
13	-0:02	732	-0:01	1123
14	0:05	209	0:02	584
15	0:02	957	0:02	1018
16	0:01	488	0:05	1057
17	0:05	457	0:06	491
18	0:06	751	0:08	759
19	0:03	408	0:03	1199
20	0:02	1326	0:05	1778
21	0:02	765	-0:00	1170
22	0:04	639	0:06	664
23	0:05	38	0:06	92
TOTAL	0:02	11655	0:03	16696

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-19
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT SFO FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	-----1974-----		-----1975-----	
	AVERAGE ARR DELAY*	NUMBER OF ARRIVALS	AVERAGE ARR DELAY*	NUMBER OF ARRIVALS
00	0:01	575	0:01	799
01	0:02	156	0:01	631
02	-0:01	460	-0:02	651
03	-0:00	953	-0:00	761
04	0:04	140	0:06	74
05	0:07	174	0:05	421
06	0:17	492	0:21	630
07	0:05	458	0:05	520
08	0:06	890	0:06	1215
09	0:09	898	0:08	1880
10	0:00	1824	-0:01	1797
11	0:05	2260	0:05	2887
12	0:09	2847	0:05	4242
13	0:04	1423	0:06	1730
14	0:16	1799	0:15	2403
15	0:07	2158	0:05	2622
16	0:07	1072	0:07	2228
17	0:05	1235	0:07	1105
18	0:06	2364	0:05	3774
19	0:12	3340	0:09	3743
20	0:08	1446	0:09	3273
21	0:07	1676	0:09	1731
22	0:09	1244	0:07	1717
23	0:04	64	0:11	1085
TOTAL	0:07	29948	0:07	41869

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN

TABLE III-5-20
HOURLY DISTRIBUTION OF AIRBORNE DELAYS FOR FLIGHTS
ARRIVING AT STL FROM 19 STUDY AIRPORTS

LOCAL ARRIVAL HOUR	1974		1975	
	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS	AVERAGE AIR DELAY*	NUMBER OF ARRIVALS
00	0:01	330	0:02	320
01	0:01	357	0:03	120
02				
03				
04				
05	0:03	226	0:04	732
06	0:02	385	0:02	689
07	0:05	358	0:06	313
08	0:06	1340	0:06	1941
09	0:04	2187	0:07	3175
10	0:07	1536	0:09	1522
11	0:06	715	0:06	1296
12	0:06	1634	0:08	2010
13	0:04	2058	0:05	3173
14	0:03	1424	0:04	1373
15	0:05	2024	0:07	2695
16	0:04	1940	0:07	2545
17	0:04	1795	0:05	2835
18	0:06	1427	0:07	1288
19	0:06	2538	0:07	2442
20	0:03	1247	0:07	2420
21	0:04	1122	0:05	1448
22	0:04	839	0:03	1542
23	-0:01	323	0:03	583
TOTAL	0:05	25805	0:06	34462

---ALL TIMES ARE IN HOURS AND MINUTES---

* AVERAGE AIR DELAY IS A SUMMATION OF ALL AIRBORNE DELAYS FROM TAKEOFF TO TOUCHDOWN